

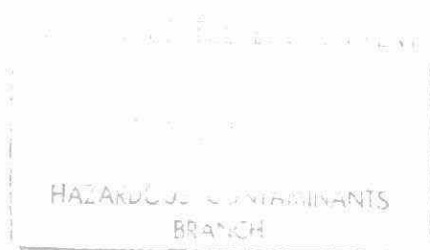
STANDARDS DEVELOPMENT BRANCH OMOE



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INTRODUCTION

This Appendix is intended for use in conjunction with the Annual Report Air Quality in Ontario 1986.

For each pollutant, tables provide the location of stations and supply sample distribution information including means, maxima and the number of exceedances of the Ontario criteria.

The entire continuous (hourly) network is summarized in Appendix Table A-1. This table gives station name, numerical identifier, and pollutants measured.

Letter codes indicate whether data are telemetered (T, N, S or B) or chart-read (C). The column headings for pollutants are as follows:

SO₂ sulphur dioxide
COH soiling index (coefficient of haze)
CO carbon monoxide
O₃ ozone
NO₂ nitrogen dioxide
NO nitric oxide
NO_x total nitrogen oxides
THC total hydrocarbons
RHC reactive (non-methane) hydrocarbons
TRS total reduced sulphur
API air pollution index

Table A-2 gives detailed locations for the continuous monitoring network.

The particulate (daily) network is summarized in Appendix Table A-3. This table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for pollutants are as follows:

TSP total suspended particulate
Cd cadmium
Co cobalt
Cr chromium
Cu copper
Fe iron
Mn manganese
Ni nickel
Pb lead
V vanadium
NO₃ nitrate
SO₄²⁻ sulphate

Table A-4 gives detailed locations for the daily monitoring network. The statistical data and the 10-year trends for the various pollutants are provided in Tables A-5 through A-40.

ABBREVIATIONS

INS — insufficient data to compute relevant statistic.
YR — year that monitoring began.

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TABLE A-1 THE CONTINUOUS (HOURLY) NETWORK (1986)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

T = TORONTO TELEMETRY ONLY N = NEMP TELEMETRY ONLY S = SUDBURY TELEMETRY ONLY
 C = CHART READ D = CALCULATED BY AQUIS
 B = TORONTO TELEMETRY AND SUDBURY TELEMETRY

| STATION NAME | ID | YR | SO2 | COH | CO | O3 | NO2 | NO | NOX | THC | RHC | TRS | API |
|----------------------|-------|----|-----|-----|----|----|-----|----|-----|-----|-----|-----|-----|
| HURON PARK | 10001 | 77 | . | . | . | C | . | . | . | . | . | . | . |
| WINDSOR- WRIGHT | 12007 | 84 | T | . | . | . | . | . | . | . | . | C | . |
| WINDSOR- UNIVERSITY | 12008 | 69 | T | T | T | T | T | C | D | T | C | . | T |
| WINDSOR- WYANDOTTE | 12013 | 76 | C | . | . | . | . | . | . | . | . | C | . |
| WINDSOR- COLLEGE | 12016 | 75 | T | T | . | . | . | . | . | . | . | . | T |
| WINDSOR- HOWARD | 12038 | 77 | . | C | . | . | . | . | . | . | . | . | . |
| WINDSOR- DOUGALL | 12039 | 78 | . | C | . | . | . | . | . | . | . | . | . |
| WINDSOR- DOUGALL 2 | 12047 | 84 | C | . | . | . | . | . | . | . | . | . | . |
| WINDSOR- MALDEN | 12048 | 84 | C | . | . | . | . | . | . | . | . | . | . |
| WINDSOR- ALEXANDRINE | 12049 | 85 | . | C | . | . | . | . | . | . | . | . | . |
| 12008- BACKUP | 12108 | 73 | . | T | . | . | . | . | . | . | . | . | . |
| 12016- BACKUP | 12116 | 75 | . | T | . | . | . | . | . | . | . | . | . |
| MERLIN | 13021 | 77 | . | . | . | C | . | . | . | . | . | . | . |
| COURTRIGHT- HWY 40 | 14016 | 69 | T | . | . | . | . | . | . | . | . | . | . |
| SARNIA- CENTENNIAL | 14064 | 78 | T | T | T | T | T | C | D | T | . | C | T |
| PETROLIA | 14118 | 77 | . | . | . | C | . | . | . | . | . | . | . |
| THEDFORD | 14119 | 83 | . | . | . | C | . | . | . | . | . | . | . |
| 14064- BACKUP | 14164 | 78 | . | T | . | . | . | . | . | . | . | . | . |
| LONDON- FAIR GROUNDS | 15001 | 70 | T | T | T | T | T | T | D | T | . | . | . |
| LONGWOODS | 15009 | 83 | . | C | . | . | . | . | . | . | . | . | . |
| PARKHILL | 15013 | 83 | . | . | . | C | . | . | . | . | . | . | . |
| LONDON | 15015 | 86 | C | . | . | . | . | . | . | . | . | . | . |
| LONDON | 15016 | 86 | C | . | . | . | . | . | . | . | . | . | . |
| LONDON | 15017 | 86 | C | . | . | . | . | . | . | . | . | . | . |
| TIVERTON- CON RD 2 | 18007 | 79 | C | . | . | C | . | . | . | . | . | C | . |
| SIMCOE | 22071 | 75 | T | T | . | T | T | T | D | . | T | . | . |
| NANTICOKE- CHEAPSIDE | 22086 | 77 | N | . | . | . | N | D | N | . | N | N | . |
| TOWNSEND | 22094 | 84 | N | . | . | . | N | . | . | . | . | . | . |
| LONG POINT | 22901 | 79 | N | . | . | N | N | D | N | . | . | . | . |
| NANTICOKE- WALPOLE | 22904 | 79 | . | . | . | . | . | . | . | . | N | N | . |
| NANTICOKE- RAINHAM | 22907 | 84 | N | . | . | . | . | . | . | . | . | N | . |
| KITCHENER | 26029 | 76 | C | . | C | C | C | C | D | . | . | . | . |
| ST CATHARINES- NORTH | 27037 | 76 | T | T | T | T | T | C | D | . | C | . | T |
| THOROLD- NIAGARA | 27042 | 78 | C | . | . | . | . | . | . | . | . | . | . |
| CHIPPAWA- NORTON | 27051 | 79 | C | . | . | . | . | . | . | . | . | C | . |
| THOROLD- QUEEN | 27052 | 83 | C | C | . | . | . | . | . | . | . | C | . |
| NIAGARA F- STANLEY | 27055 | 83 | C | C | . | . | . | . | . | . | . | C | . |
| NIAGARA F- ALLENDALE | 27056 | 83 | T | T | . | . | . | . | . | . | . | . | T |
| 27037- BACKUP | 27137 | 79 | T | T | . | . | . | . | . | . | . | . | T |
| 27056- BACKUP | 27156 | 83 | T | T | . | . | . | . | . | . | . | . | T |

TABLE A-1 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

T = TORONTO TELEMETRY ONLY N = NEMP TELEMETRY ONLY S = SUDBURY TELEMETRY ONLY
 C = CHART READ D = CALCULATED BY AQUIS
 B = TORONTO TELEMETRY AND SUDBURY TELEMETRY

| STATION NAME | ID | YR | S02 | COH | CO | O3 | NO2 | NO | NOX | THC | RHC | TRS | API |
|----------------------|-------|----|-----|-----|----|----|-----|----|-----|-----|-----|-----|-----|
| ----- | | | | | | | | | | | | | |
| THUNDER B- ALGOMA | 63022 | 78 | C | . | . | . | . | . | . | . | . | . | . |
| MARATHON- PENINSULA | 63034 | 82 | . | . | . | . | . | . | . | . | . | C | . |
| THUNDER B- JAMES | 63040 | 75 | C | C | . | C | . | . | . | . | . | . | . |
| THUNDER B- MONTREAL | 63046 | 76 | . | . | . | . | . | . | . | . | . | C | . |
| RED ROCK | 63084 | 81 | . | . | . | . | . | . | . | . | . | C | . |
| ----- | | | | | | | | | | | | | |
| TERRACE BAY | 63090 | 81 | . | . | . | . | . | . | . | . | . | C | . |
| HAWKEYE LAKE | 63100 | 83 | C | . | . | C | C | C | D | . | . | . | . |
| THUNDER BAY- MTC | 63200 | 86 | C | C | C | C | . | . | . | . | . | C | . |
| MISSION | 71057 | 78 | C | . | . | . | . | . | . | . | . | . | . |
| S.S.MARIE- FARWELL | 71066 | 83 | S | S | S | S | S | D | S | . | . | S | . |
| ----- | | | | | | | | | | | | | |
| SMOOTH ROCK FALLS | 72084 | 86 | . | . | . | . | . | . | . | . | . | S | . |
| NORTH BAY | 75010 | 79 | C | . | . | . | . | . | . | . | . | . | . |
| SKEAD | 77012 | 52 | S | . | . | . | . | . | . | . | . | . | . |
| HANMER | 77013 | 65 | S | . | . | . | . | . | . | . | . | . | . |
| SUDBURY- ASH | 77016 | 69 | B | T | T | B | . | . | . | . | . | . | T |
| ----- | | | | | | | | | | | | | |
| CONISTON- GOVERNMENT | 77028 | 74 | B | T | . | . | . | . | . | . | . | . | T |
| GARSON- FALCONBRIDGE | 77065 | 76 | S | . | . | . | . | . | . | . | . | . | . |
| NEW SUDBURY- KENNEDY | 77075 | 76 | B | T | . | . | . | . | . | . | . | . | T |
| SUDBURY- LONG LAKE | 77096 | 80 | S | . | . | . | . | . | . | . | . | . | . |
| MIKKOLA | 77201 | 82 | S | . | . | . | . | . | . | . | . | . | . |
| ----- | | | | | | | | | | | | | |
| HIGH FALLS | 77202 | 84 | S | . | . | . | . | . | . | . | . | . | . |
| SCIENCE NORTH | 77203 | 84 | S | S | S | S | S | D | S | . | . | S | . |
| RAYSIDE- ST LAURENT | 77206 | 85 | S | . | . | . | . | . | . | . | . | . | . |
| ----- | | | | | | | | | | | | | |

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|--|-------|----|---------|----------|------|----------|
| COLLEGE OF AGRIC TECH HURON PARK | 10001 | 77 | 459200. | 4793100. | 17 | 5 |
| WRIGHT/WATER ST WINDSOR | 12007 | 84 | 327100. | 4682300. | 17 | 4 |
| 467 UNIVERSITY AV W WINDSOR | 12008 | 69 | 331600. | 4686700. | 17 | 8 |
| FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR | 12013 | 76 | 335800. | 4687400. | 17 | 6 |
| COLLEGE/SOUTH ST WINDSOR | 12016 | 75 | 329000. | 4684100. | 17 | 4 |
| 2885 HOWARD AV WINDSOR | 12038 | 77 | 334200. | 4682600. | 17 | 1 |
| DOUGLAS ST/E.C. ROW W WINDSOR | 12039 | 78 | 333700. | 4682100. | 17 | 5 |
| DORWIN PLAZA, DOUGALL AV WINDSOR | 12047 | 84 | 332700. | 4683400. | 17 | 3 |
| MALDEN RD (S LAURIER DR) WINDSOR | 12048 | 84 | 329900. | 4676600. | 17 | 3 |
| 643 ALEXANDRINE WINDSOR | 12049 | 85 | 334300. | 4683200. | 17 | 1 |
| 467 UNIVERSITY AV W BKUP WINDSOR | 12108 | 73 | 328600. | 4686700. | 17 | 8 |
| COLLEGE/PRINCE BKUP WINDSOR | 12116 | 75 | 328900. | 4683900. | 17 | 4 |
| MOE WATER PUMP STN, MIDDLE RD MERLIN | 13021 | 77 | 399100. | 4677600. | 17 | 3 |
| HWY 40 (OPP LAMBTON GS) COURTRIGHT | 14016 | 69 | 379300. | 4739700. | 17 | 4 |
| CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA | 14064 | 78 | 385400. | 4759600. | 17 | 3 |
| PUC BLDG, HWY 21 PETROLIA | 14118 | 77 | 402700. | 4756400. | 17 | 5 |
| PUB BLDG THEDFORD | 14119 | 83 | 430300. | 4779800. | 17 | 5 |
| CENTENNIAL PK, BKUP SARNIA | 14164 | 78 | 385400. | 4759600. | 17 | 3 |
| WRN FAIR GROUNDS, KING/RECTORY LONDON | 15001 | 70 | 481800. | 4759500. | 17 | 4 |
| LONGWOODS CONSERVATION AUTHORITY | 15009 | 83 | 460700. | 4747700. | 17 | 2 |
| PUC BLDG PARKHILL | 15013 | 83 | 444800. | 4779300. | 17 | 5 |
| 951 COMMISSIONERS RD E LONDON | 15015 | 86 | 482800. | 4756100. | 17 | 4 |
| 801 COMMISSIONERS RD E LONDON | 15016 | 86 | 482000. | 4755400. | 17 | 4 |
| 8 MOUNTSFIELD DR LONDON | 15017 | 86 | 480100. | 4756100. | 17 | 4 |
| CONCESSION RD 2 LOT A TIVERTON | 18007 | 79 | 454100. | 4905300. | 17 | 4 |
| EXPERIMENTAL FARM SIMCOE | 22071 | 75 | 559700. | 4744900. | 17 | 4 |
| CHEAPSIDE RD (3 KM S OF HWY 3) NANTICOKE | 22086 | 77 | 582100. | 4747200. | 17 | 5 |
| TOWNLINE RD/CON 13 TOWNSEND | 22094 | 86 | 570000. | 4749000. | 17 | 4 |
| PROVINCIAL PARK LONG POINT | 22901 | 79 | 550200. | 4713800. | 17 | 4 |
| WALPOLE S PS, SANDUSK RD NANTICOKE | 22904 | 79 | 579400. | 4743400. | 17 | 4 |
| RAINHAM RD (NEAR STELCO GATE) NANTICOKE | 22907 | 84 | 575200. | 4739800. | 17 | 4 |
| EDNA/FREDERICK STS KITCHENER | 26029 | 76 | 542700. | 4811600. | 17 | 5 |
| NORTH/GENEVA ST ST CATHARINES | 27037 | 76 | 643100. | 4780500. | 17 | 6 |
| NIAGARA FALLS RD/ONTARIO ST THOROLD | 27042 | 78 | 646900. | 4773900. | 17 | 5 |
| HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA | 27051 | 79 | 658000. | 4769400. | 17 | 16 |
| 185 QUEEN ST S THOROLD | 27052 | 83 | 646000. | 4774900. | 17 | 1 |
| STP GROUNDS, STANLEY AV NIAGARA FALLS | 27055 | 83 | 655900. | 4776300. | 17 | 4 |
| ALLENDALE AV NIAGARA FALLS | 27056 | 83 | 655700. | 4771800. | 17 | 5 |
| NORTH/GENEVA ST API BKUP ST CATHARINES | 27137 | 79 | 643100. | 4780500. | 17 | 6 |
| ALLENDALE AV BACKUP NIAGARA FALLS | 27156 | 83 | 655700. | 4771800. | 17 | 5 |

TABLE A-2 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|---|-------|----|---------|----------|------|----------|
| ----- | | | | | | |
| EXHIBITION ST/CLARK ST GUELPH | 28028 | 86 | 559400. | 4822100. | 17 | 4 |
| HUGHSON/HUNTER HAMILTON | 29001 | 61 | 591800. | 4789400. | 17 | 9 |
| BARTON/WENTWORTH HAMILTON | 29025 | 69 | 593900. | 4790000. | 17 | 4 |
| 467 BEACH BLVD HAMILTON | 29102 | 84 | 598900. | 4791900. | 17 | 4 |
| NASH RD/KENTLEY DR HAMILTON | 29105 | 85 | 599800. | 4787200. | 17 | 4 |
| ----- | | | | | | |
| VICKERS RD/EAST 18TH ST HAMILTON | 29114 | 85 | 592300. | 4786700. | 17 | 3 |
| MAIN ST/W HWY 403 HAMILTON | 29118 | 85 | 588700. | 4789800. | 17 | 3 |
| BARTON/WENTWORTH API BKUP HAMILTON | 29125 | 70 | 593700. | 4790000. | 17 | 4 |
| MISSION, 381 YONGE ST TORONTO | 31049 | 72 | 630400. | 4835100. | 17 | 4 |
| 26 BREADALBANE BKUP TORONTO | 31103 | 81 | 630200. | 4835600. | 17 | 15 |
| ----- | | | | | | |
| 26 BREADALBANE API TORONTO | 31104 | 81 | 630200. | 4835600. | 17 | 15 |
| SHERBOURNE/WILTON ST TORONTO | 31105 | 77 | 631700. | 4833800. | 17 | 5 |
| JUNCTION TRIANGLE, PERTH AV TORONTO | 31120 | 81 | 624800. | 4834400. | 17 | 9 |
| CN TOWER, 301 FRONT ST W TORONTO | 31190 | 85 | 630100. | 4833200. | 17 | 444 |
| LAWRENCE/KENNEDY SCARB | 33003 | 70 | 638900. | 4845100. | 17 | 4 |
| ----- | | | | | | |
| MET BRANCH, SCARB BLUFFS SCARB | 33019 | 69 | 642200. | 4841100. | 17 | 1 |
| SC CTR, 770 DON MILLS RD NORTH YORK | 34002 | 69 | 633800. | 4841400. | 17 | 17 |
| ELMCREST RD ETOBICOKE | 35003 | 69 | 613600. | 4833800. | 17 | 4 |
| QUEENSWAY HOSPITAL ETOBICOKE | 35005 | 68 | 615900. | 4829300. | 17 | 9 |
| EVANS/ARNOLD AV ETOBICOKE | 35033 | 67 | 619200. | 4830200. | 17 | 3 |
| ----- | | | | | | |
| MOE LAB, RESOURCES RD ETOBICOKE | 35050 | 76 | 617500. | 4840500. | 17 | 18 |
| HWY 2/NORTH SHORE BLVD E BURLINGTON | 44008 | 79 | 597200. | 4796400. | 17 | 17 |
| BRONTE RD/WOBURN CRES OAKVILLE | 44015 | 80 | 603100. | 4805900. | 17 | 5 |
| RITSON RD/OLIVE AV OSHAWA | 45025 | 79 | 672700. | 4861800. | 17 | 5 |
| PUB SCHOOL, GREEN GLADE RD MISSISSAUGA | 46100 | 77 | 612400. | 4818700. | 17 | 11 |
| ----- | | | | | | |
| QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 46110 | 77 | 612200. | 4824900. | 17 | 5 |
| M OF A, 509 VICTORIA ST E ALLISTON | 47035 | 81 | 591800. | 4889800. | 17 | 4 |
| ARMOURY BLDG PARK/PARKSIDE ST BARRIE | 47042 | 83 | 503800. | 4915700. | 17 | 12 |
| TRAILER/MTC YARD #9, HWY 47 STOUFFVILLE | 48002 | 74 | 639100. | 4869400. | 17 | 5 |
| HWY 117/PAINT LAKE RD DORSET | 49010 | 81 | 662400. | 5009600. | 17 | 3 |
| ----- | | | | | | |
| MCDONALD, RIDEAU/WURTENBURG ST OTTAWA | 51001 | 71 | 447100. | 5031200. | 18 | 4 |
| MEMORIAL PARK, BEDFORD/THIRD STS CORNWALL | 56051 | 70 | 520800. | 4984600. | 18 | 4 |
| ST FRANCES SCHOOL CORNWALL | 56068 | 75 | 520500. | 4984500. | 18 | 6 |
| ST PETERS SCHOOL CORNWALL | 56071 | 84 | 464700. | 4981800. | 18 | 4 |
| CITY HALL, 500 GEORGE ST PETERBOROUGH | 59006 | 76 | 713700. | 4909500. | 17 | 18 |
| ----- | | | | | | |
| SEWAGE TREATMENT PLT BALMERTOWN | 61014 | 82 | 448200. | 5656100. | 15 | 6 |
| 35 VAN HORNE AV DRYDEN | 61027 | 84 | 611600. | 5514300. | 15 | 15 |
| PORTAGE/CHURCH ST FORT FRANCES | 62030 | 72 | 470800. | 5383800. | 15 | 4 |
| CEMETERY COLONIZATION RD W FORT FRANCES | 62032 | 76 | 469700. | 5384100. | 15 | 5 |
| BOISE CASCADE, VICTORIA AV FORT FRANCES | 62051 | 82 | 471000. | 5383500. | 15 | 5 |
| ----- | | | | | | |

TABLE A-2 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|---|-------|----|---------|----------|------|----------|
| HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 63022 | 78 | 335600. | 5367200. | 16 | 22 |
| PENINSULA BLDG MARATHON | 63034 | 82 | 545300. | 5396000. | 16 | 12 |
| 435 JAMES ST S THUNDER BAY | 63040 | 75 | 330200. | 5360700. | 16 | 15 |
| CAN-CAR BLDG, MONTREAL ST THUNDER BAY | 63046 | 76 | 330000. | 5358400. | 16 | 3 |
| RECREATION CENTRE RED ROCK | 63084 | 81 | 408000. | 5421600. | 16 | 7 |
| ST. MARTIN SCHOOL TERRACE BAY | 63090 | 81 | 492700. | 5403400. | 16 | 8 |
| HAWKEYE LAKE | 63100 | 83 | 317500. | 5393100. | 16 | 4 |
| MTC 615 JAMES ST S THUNDER BAY | 63200 | 86 | 330300. | 5360300. | 16 | 3 |
| MICHIPICOTEN AV LOT 38 TOWN OF MISSION | 71057 | 78 | 662500. | 5311000. | 16 | 4 |
| FARWELL PUMPHOUSE S.S.MARIE | 71066 | 83 | 702400. | 5156100. | 16 | 4 |
| ROSS ROAD SMOOTH ROCK FALLS | 72084 | 86 | 454600. | 5458300. | 16 | 4 |
| OPP STN NORTH BAY | 75010 | 79 | 619700. | 5130500. | 17 | 4 |
| SKEAD SUDBURY AIRSHED | 77012 | 52 | 518600. | 5167800. | 17 | 5 |
| HANMER SUDBURY AIRSHED | 77013 | 65 | 504100. | 5166300. | 17 | 5 |
| ASH ST WATER TANK SUDBURY AIRSHED | 77016 | 69 | 499400. | 5148600. | 17 | 3 |
| GOVERNMENT RD/EDWARD ST CONISTON | 77028 | 74 | 511800. | 5148000. | 17 | 5 |
| FALCONBRIDGE RD GARSON SUDBURY DISTRICT | 77065 | 76 | 510900. | 5155900. | 17 | 5 |
| KENNEDY ST NEW SUDBURY | 77075 | 76 | 504400. | 5152000. | 17 | 5 |
| LONG LAKE RD SUDBURY VILLA LOYOLA | 77096 | 80 | 499200. | 5138700. | 17 | 4 |
| MIKKOLA J HAMILTON SCHOOL WALDEN | 77201 | 82 | 491500. | 5140500. | 17 | 5 |
| HIGH FALLS | 77202 | 84 | 458100. | 5136500. | 17 | 33 |
| SCIENCE N SUDBURY | 77203 | 84 | 500800. | 5146100. | 17 | 10 |
| ST LAURENT & REGIONAL RD RAYSIDE | 77206 | 85 | 492700. | 5159900. | 17 | 4 |

TABLE A-3 THE PARTICULATE (DAILY) NETWORK (1986)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86,DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS

| STATION NAME | ID | YR | TSP | CD | CO | CR | CU | FE | MN | NI | PB | V | NO3 | SO4 |
|----------------------|-------|----|-----|----|----|----|----|----|----|----|----|---|-----|-----|
| GODERICH | 10015 | 76 | 6 | . | . | . | . | . | . | . | . | . | 6 | 6 |
| ST MARYS | 11001 | 78 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| WINDSOR- CITY HALL | 12002 | 69 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR- RIVERSIDE | 12005 | 78 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| LA SALLE | 12006 | 83 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| WINDSOR- WRIGHT | 12007 | 84 | 6 | . | . | . | . | 6 | . | . | 6 | . | . | . |
| WINDSOR- UNIVERSITY | 12008 | 70 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| LITTLE RIVER | 12009 | 71 | 6 | . | . | . | . | . | . | . | 6 | . | 6 | 6 |
| WINDSOR- MANNING | 12010 | 71 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR- WYANDOTTE | 12013 | 71 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |
| WINDSOR- PROSPECT | 12015 | 71 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR- COLLEGE | 12016 | 75 | 3 | . | . | . | . | 3 | . | . | 3 | . | . | . |
| WINDSOR- GEORGE | 12036 | 77 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| WINDSOR- CALIFORNIA | 12037 | 77 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| WINDSOR- HOWARD | 12038 | 77 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR- DOUGALL 1 | 12039 | 78 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR- DOUGALL 2 | 12047 | 85 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR- ALEXANDRINE | 12049 | 85 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| WINDSOR | 12051 | 86 | 6 | 6 | 6 | 6 | . | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| AMHERSTBURG | 12053 | 81 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| 12015- BACKUP | 12115 | 85 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| CHATHAM | 13003 | 69 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| SARNIA- HITTON | 14001 | 69 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| COURTRIGHT- HWY 40 | 14016 | 69 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| CORUNNA- RR1 | 14030 | 78 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |
| MOORETOWN | 14031 | 78 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |
| SARNIA- POINT EDWARD | 14054 | 69 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| CORUNNA- ST CLAIR | 14059 | 75 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| SARNIA- CENTENNIAL | 14064 | 78 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| SARNIA- DAVID | 14151 | 79 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| LONDON- FAIR GROUNDS | 15001 | 70 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| LONDON- DUNDAS | 15003 | 70 | 6 | . | . | . | . | . | . | . | 6 | . | 6 | 6 |
| ST THOMAS- ALEX'DRIA | 15006 | 75 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| ST THOMAS- TALBOT | 15007 | 75 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| ST THOMAS- EDGEWARE | 15008 | 81 | 6 | . | . | . | . | . | . | . | 6 | . | . | . |
| LONGWOODS | 15009 | 83 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | . | . |
| LONDON | 15014 | 86 | 6 | 6 | . | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |
| LONDON | 15015 | 86 | 6 | 6 | . | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |
| LONDON | 15016 | 86 | 6 | 6 | . | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |
| LONDON | 15017 | 86 | 6 | 6 | . | 6 | 6 | 6 | 6 | 6 | 6 | 6 | . | . |

SINGLE DIGITS = CYCLE DURATION IN DAYS

[illegible]

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS

| STATION NAME | ID | YR | TSP | CD | CO | CR | CU | FE | MN | NI | PB | V | NO3 | SO4 |
|----------------------|-------|----|-----|----|----|----|----|----|----|----|----|---|-----|-----|
| HAMILTON- BEACH | 29102 | 85 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| GREENSVILLE | 29111 | 86 | 3 | . | . | . | . | . | . | . | . | . | . | . |
| HAMILTON- GERTRUDE | 29113 | 86 | 3 | . | . | . | . | . | . | . | . | . | . | . |
| HAMILTON- VICKERS | 29114 | 86 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| HAMILTON- MAIN | 29118 | 85 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| HAMILTON- MORLEY | 29119 | 86 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| TORONTO- MOSLEY | 31058 | 73 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | . | . |
| TORONTO- BERKSHIRE | 31064 | 73 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | . | . |
| TORONTO- HAMILTON | 31082 | 74 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| TORONTO- SAULTER | 31084 | 74 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| TORONTO- TECUMSETH | 31085 | 79 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| TORONTO- BREADALBANE | 31104 | 81 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| TORONTO- JUNCTION | 31120 | 81 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| TORONTO- EASTERN | 31126 | 86 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | . | . |
| TORONTO- BATHURST | 31181 | 83 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| E YORK- INDUSTRIAL | 32008 | 85 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | . | . |
| SCARBORO- LAWRENCE | 33003 | 70 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| SCARBORO- REDLAND | 33019 | 69 | 6 | . | . | . | . | . | . | . | 6 | . | 6 | 6 |
| N YORK- SCIENCE CTR | 34002 | 70 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ETOBICOKE- ELMCREST | 35003 | 69 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ETOBICOKE- QUEENSWAY | 35005 | 69 | 3 | . | . | . | . | . | . | . | . | . | 3 | 3 |
| ETOBICOKE- EVANS | 35033 | 69 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ETOBICOKE- LAKESHORE | 35037 | 74 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | . | . |
| ETOBICOKE- MOL LAB | 35051 | 80 | 1 | . | . | . | . | . | . | . | . | . | . | . |
| OAKVILLE- SEWAGE PL | 44005 | 69 | 1 | . | . | . | . | . | . | . | . | . | . | . |
| BURLINGTON | 44008 | 79 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| OAKVILLE | 44015 | 80 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| PICKERING- FIRE HALL | 45001 | 70 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| OSHAWA- LIBRARY | 45011 | 69 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | . | . |
| OSHAWA- RITSON | 45025 | 79 | 3 | . | . | . | . | . | . | . | 3 | . | 3 | 3 |
| MIS'AUGA- LIBRARY | 46025 | 70 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| BRAMALEA | 46033 | 69 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| MIS'AUGA- 2414 DIXIE | 46041 | 72 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| MIS'AUGA- 2365 DIXIE | 46045 | 73 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| MIS'AUGA- 2360 DIXIE | 46046 | 73 | 1 | . | . | . | . | . | . | . | 1 | . | . | . |
| MIS'AUGA- QUEENSWAY | 46110 | 78 | 3 | . | . | . | . | . | . | . | 3 | . | 3 | 3 |
| ORILLIA | 47019 | 77 | 6 | . | . | . | . | . | . | . | . | . | 6 | 6 |
| BARRIE | 47042 | 82 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| STOUFFVILLE | 48002 | 80 | 3 | . | . | . | . | . | . | . | . | . | 3 | 3 |
| PORT HOPE- SHUTER | 58027 | 75 | 1 | . | . | . | . | . | . | . | . | . | 1 | 1 |

| STATION NAME | ID | YR | TSP | CD | CO | CR | CU | FE | MN | NI | PB | V | NO3 | SO4 |
|----------------------|-------|----|-----|----|----|----|----|----|----|----|----|---|-----|-----|
| PORT HOPE- MARSH | 58041 | 84 | 1 | . | . | . | . | . | . | . | . | . | 1 | 1 |
| PORT HOPE- QUEEN | 58042 | 84 | 1 | . | . | . | . | . | . | . | . | . | 1 | 1 |
| PETERBORO- CITY HALL | 59006 | 77 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ATIKOKAN | 62013 | 76 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| F FRANCES- COLONIZ'N | 62032 | 76 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| F FRANCES- CHURCH | 62035 | 83 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| THUNDER B- ARCHIBALD | 63005 | 70 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| THUNDER B- DAWSON | 63012 | 70 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| THUNDER B- ALGOMA | 63022 | 69 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| THUNDER B- JAMES | 63040 | 75 | 6 | . | . | . | . | . | . | . | 6 | . | 6 | 6 |
| THUNDER B- MONTREAL | 63046 | 78 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| THUNDER B- WILLIAM | 63052 | 80 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| S.S.MARIE- BONNEY | 71042 | 75 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| S.S.MARIE- QUEEN | 71049 | 75 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| BLIND RIVER | 71065 | 82 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| S.S.MARIE- FARWELL | 71066 | 83 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| TIMMINS | 72077 | 84 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| NORTH BAY | 75010 | 79 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| SUDBURY- ASH | 77016 | 69 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| SUDBURY- LISGAR | 77026 | 72 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ESPAÑOLA- SPRUCE | 77029 | 77 | 6 | . | . | . | . | . | . | . | . | . | . | . |
| COPPER CLIFF | 77070 | 76 | 6 | 6 | 6 | 6 | 6 | 6 | . | 6 | 6 | 6 | 6 | 6 |

TABLE A-4 LOCATIONS OF PARTICULATE (DAILY) STATIONS (1986)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|--|-------|----|---------|----------|------|----------|
| ----- | | | | | | |
| PUC BLDG, WEST ST GODERICH | 10015 | 76 | 442500. | 4843400. | 17 | 6 |
| 309 THOMAS ST ST MARYS | 11001 | 78 | 487900. | 4788400. | 17 | 30 |
| CITY HALL, 444 WINDSOR AV WINDSOR | 12002 | 69 | 332300. | 4686700. | 17 | 15 |
| 7730 RIVERSIDE DR E WINDSOR | 12005 | 78 | 339500. | 4689000. | 17 | 10 |
| BEACH LANE/HWY 18 LA SALLE | 12006 | 83 | 326400. | 4677800. | 17 | 4 |
| ----- | | | | | | |
| WRIGHT/WATER ST WINDSOR | 12007 | 84 | 327100. | 4682300. | 17 | 4 |
| 467 UNIVERSITY AV W WINDSOR | 12008 | 70 | 331600. | 4686700. | 17 | 8 |
| 9725 RIVERSIDE DR E LITTLE RIVER | 12009 | 71 | 341300. | 4688800. | 17 | 2 |
| SEWAGE STN, MANNING RD WINDSOR | 12010 | 71 | 346000. | 4687500. | 17 | 1 |
| FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR | 12013 | 71 | 335800. | 4687400. | 17 | 6 |
| ----- | | | | | | |
| SEWAGE STN, HWY 18/PROSPECT WINDSOR | 12015 | 71 | 328300. | 4683300. | 17 | 5 |
| COLLEGE/SOUTH ST WINDSOR | 12016 | 75 | 329000. | 4684100. | 17 | 4 |
| 1802 GEORGE AV WINDSOR | 12036 | 77 | 336700. | 4685800. | 17 | 5 |
| 3225 CALIFORNIA ST WINDSOR | 12037 | 77 | 332700. | 4681600. | 17 | 4 |
| 2885 HOWARD AV WINDSOR | 12038 | 77 | 334200. | 4682600. | 17 | 1 |
| ----- | | | | | | |
| DOUGALL/E.C. ROW W WINDSOR | 12039 | 78 | 333700. | 4682100. | 17 | 5 |
| DORWIN PLAZA, DOUGALL AV WINDSOR | 12047 | 85 | 332700. | 4683400. | 17 | 3 |
| 643 ALEXANDRINE WINDSOR | 12049 | 85 | 334300. | 4683200. | 17 | 1 |
| 604 CAPITOL/REMINGTON WINDSOR | 12051 | 86 | 334400. | 4682800. | 17 | 1 |
| 415 FRONT ST AMHERSTBURG | 12053 | 81 | 325300. | 4665700. | 17 | 14 |
| ----- | | | | | | |
| HWY 18/PROSPECT BKUP WINDSOR | 12115 | 85 | 328300. | 4683300. | 17 | 5 |
| POST OFFICE, 10 CENTRE ST CHATHAM | 13003 | 69 | 402400. | 4695200. | 17 | 12 |
| GENERAL HOSPITAL, 220 HITTON ST SARNIA | 14001 | 69 | 386000. | 4758700. | 17 | 15 |
| HWY 40 (OPP LAMBTON GS) COURTRIGHT | 14016 | 69 | 379300. | 4739700. | 17 | 4 |
| RR1 (W OF HOUSE) CORUNNA | 14030 | 78 | 394900. | 4748600. | 17 | 1 |
| ----- | | | | | | |
| RR1 (W OF BARN) MOORETOWN | 14031 | 78 | 393800. | 4746100. | 17 | 1 |
| SARNIA YACHT CLUB, POINT EDWARD SARNIA | 14054 | 69 | 384600. | 4761700. | 17 | 5 |
| ST CLAIR BLVD/HWY 40 CORUNNA | 14059 | 75 | 381300. | 4748100. | 17 | 4 |
| CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA | 14064 | 78 | 385400. | 4759600. | 17 | 3 |
| DAVID/FRONT ST SARNIA | 14151 | 79 | 385200. | 4758800. | 17 | 4 |
| ----- | | | | | | |
| WRN FAIR GROUNDS, KING/RECTORY LONDON | 15001 | 70 | 481800. | 4759500. | 17 | 4 |
| 362 DUNDAS ST LONDON | 15003 | 70 | 480100. | 4759000. | 17 | 17 |
| 16 ALEXANDRIA ST ST THOMAS | 15006 | 75 | 485600. | 4736100. | 17 | 6 |
| 1012 TALBOT ST ST THOMAS | 15007 | 75 | 485700. | 4736000. | 17 | 9 |
| EDGEWARE RD (NNW VARTA PLT) ST THOMAS | 15008 | 81 | 487600. | 4737900. | 17 | 2 |
| ----- | | | | | | |
| LONGWOODS CONSERVATION AUTHORITY | 15009 | 83 | 460700. | 4747700. | 17 | 2 |
| POND MILLS RD/DEVERON CRES LONDON | 15014 | 86 | 483600. | 4756300. | 17 | 4 |
| 951 COMMISSIONER'S RD E LONDON | 15015 | 86 | 482800. | 4756100. | 17 | 4 |
| 801 COMMISSIONER'S RD E LONDON | 15016 | 86 | 482000. | 4755400. | 17 | 4 |
| 8 MOUNTSFIELD DR LONDON | 15017 | 86 | 480100. | 4756100. | 17 | 4 |
| ----- | | | | | | |

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|--|-------|----|---------|----------|------|----------|
| ST ANTHONY'S SS, HWY 2 BEACHVILLE | 17006 | 74 | 513200. | 4769600. | 17 | 6 |
| HWY 2 RR 2 (J SPIEL PROP) INGERSOLL | 17020 | 81 | 511800. | 4767500. | 17 | 2 |
| OXFORD CTY RD 6 (HESSTON FARM) EMBRO | 17021 | 83 | 510200. | 4772200. | 17 | 1 |
| 182 WATER ST WINGHAM | 17022 | 85 | 474700. | 4856100. | 17 | 1 |
| ST ANTHONY'S SS HWY 2 BEACHVILLE | 17206 | 84 | 513200. | 4769600. | 17 | 5 |
| ST ANTHONY'S SS HWY 2 BEACHVILLE | 17306 | 84 | 513200. | 4769600. | 17 | 5 |
| 369 LEOPOLD ST WINGHAM | 18014 | 85 | 474700. | 4849600. | 17 | 1 |
| TROWBRIDGE MEAFORD | 18015 | 86 | 532500. | 4939300. | 17 | 1 |
| JARVIS COMMUNITY CENTRE, JAMES ST JARVIS | 22087 | 80 | 572400. | 4748100. | 17 | 4 |
| ST GEORGE/ALMA PORT DOVER | 22090 | 83 | 564300. | 4737700. | 17 | 5 |
| RAINHAM RD/SANDUSK RD JARVIS | 22092 | 85 | 579100. | 4740700. | 17 | 4 |
| WALPOLE S PS, SANDUSK RD NANTICOKE | 22904 | 79 | 579400. | 4743400. | 17 | 4 |
| RAINHAM RD (NEAR STELCO GATE) NANTICOKE | 22907 | 84 | 575200. | 4739800. | 17 | 4 |
| NANTICOKE RD/WALPOLE CON 2 NANTICOKE | 22961 | 79 | 575800. | 4741200. | 17 | 3 |
| N 2 KM NANTICOKE GS NANTICOKE | 22964 | 84 | 574500. | 4742000. | 17 | 4 |
| HWY 6/NORFOLK CON 2 JARVIS | 22965 | 84 | 569800. | 4741300. | 17 | 2 |
| EDNA/FREDERICK STS KITCHENER | 26029 | 76 | 542700. | 4811600. | 17 | 5 |
| NORTH/GENEVA ST ST CATHARINES | 27037 | 76 | 643100. | 4780500. | 17 | 6 |
| 337 ALBERTA/DEVON ST WELLAND | 27045 | 78 | 643300. | 4758700. | 17 | 1 |
| DAVIS/FRAZER PORT COLBORNE | 27047 | 79 | 643500. | 4749700. | 17 | 3 |
| 4057 VICTORIA AV NIAGARA FALLS | 27050 | 79 | 656700. | 4775200. | 17 | 4 |
| HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA | 27051 | 79 | 658000. | 4769400. | 17 | 16 |
| 185 QUEEN ST S THOROLD | 27052 | 82 | 646000. | 4774900. | 17 | 1 |
| STP GROUNDS, STANLEY AV NIAGARA FALLS | 27055 | 82 | 655900. | 4776300. | 17 | 4 |
| ALLENDALE AV NIAGARA FALLS | 27056 | 83 | 655700. | 4771800. | 17 | 5 |
| 188 EASTCHESTER AV ST CATHARINES | 27059 | 85 | 645300. | 4780600. | 17 | 1 |
| PETRIE ST/DUNKIRK RD ST CATHARINES | 27060 | 85 | 465100. | 4780900. | 17 | 3 |
| HANLON EXPT/SPEED RIVER GUELPH | 28027 | 81 | 559400. | 4819000. | 17 | 6 |
| EXHIBITION/CLARK ST GUELPH | 28028 | 86 | 559400. | 4822100. | 17 | 4 |
| HUGHSON/HUNTER HAMILTON | 29001 | 69 | 591800. | 4789400. | 17 | 9 |
| KENILWORTH HAMILTON | 29009 | 69 | 596700. | 4788400. | 17 | 6 |
| BURLINGTON/LEEDS HAMILTON | 29011 | 61 | 595400. | 4790500. | 17 | 5 |
| BURLINGTON/WELLINGTON HAMILTON | 29012 | 66 | 593100. | 4791400. | 17 | 7 |
| CHATHAM/FRID HAMILTON | 29017 | 61 | 589800. | 4789600. | 17 | 6 |
| BARTON/WENTWORTH HAMILTON | 29025 | 69 | 593900. | 4790000. | 17 | 4 |
| 450 HUGHSON ST N HAMILTON | 29067 | 73 | 592500. | 4791300. | 17 | 5 |
| SPENCER VALLEY PS GREENSVILLE | 29077 | 74 | 581200. | 4793200. | 17 | 6 |
| 405 CUMBERLAND AV HAMILTON | 29087 | 79 | 594600. | 4788200. | 17 | 4 |
| BARTON/NASH RD HAMILTON | 29089 | 80 | 600000. | 4787900. | 17 | 6 |
| BAY/MAIN ST HAMILTON | 29098 | 83 | 591300. | 4789600. | 17 | 23 |

TABLE A-4 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|--|-------|----|---------|----------|------|----------|
| 467 BEACH BLVD HAMILTON | 29102 | 85 | 598900. | 4791900. | 17 | 4 |
| OFIELD RD/HWY 5 GREENSVILLE | 29111 | 86 | 582700. | 4793500. | 17 | 1 |
| GERTRUDE/DEPEW HAMILTON | 29113 | 86 | 595900. | 4789900. | 17 | 4 |
| VICKERS RD/EAST 18TH ST HAMILTON | 29114 | 86 | 592300. | 4786700. | 17 | 3 |
| MAIN ST/W HWY 403 HAMILTON | 29118 | 85 | 588700. | 4789800. | 17 | 3 |
| MORLEY ST/PARKDALE AV HAMILTON | 29119 | 86 | 598700. | 4789100. | 17 | 4 |
| MOSLEY/LESLIE STS TORONTO | 31058 | 73 | 634600. | 4835300. | 17 | 5 |
| 17 BERKSHIRE AV TORONTO | 31064 | 73 | 634500. | 4835300. | 17 | 1 |
| WORKS DEPT, 138 HAMILTON AV TORONTO | 31082 | 74 | 632800. | 4835500. | 17 | 5 |
| MAYDWELL MFG, 65 SAULTER ST TORONTO | 31084 | 74 | 633300. | 4835100. | 17 | 15 |
| TECUMSETH/NIAGARA ST TORONTO | 31085 | 79 | 628700. | 4833000. | 17 | 6 |
| 26 BREADALBANE AVE TORONTO | 31104 | 81 | 630200. | 4835600. | 17 | 15 |
| JUNCTION TRIANGLE, PERTH AV TORONTO | 31120 | 81 | 624800. | 4834400. | 17 | 9 |
| 969 EASTERN AV TORONTO | 31126 | 86 | 635200. | 4835500. | 17 | 11 |
| 60 BATHURST ST TORONTO | 31181 | 83 | 628800. | 4833200. | 17 | 6 |
| 30 INDUSTRIAL ST (K M SMITH) EAST YORK | 32008 | 85 | 632300. | 4840500. | 17 | 6 |
| LAWRENCE/KENNEDY SCARB | 33003 | 70 | 638900. | 4845100. | 17 | 4 |
| MET BRANCH, SCARB BLUFFS SCARB | 33019 | 69 | 642200. | 4841100. | 17 | 1 |
| CTR 770 DON MILLS RD NORTH YORK | 34002 | 70 | 633800. | 4841400. | 17 | 17 |
| ELMCREST RD ETOBICOKE | 35003 | 69 | 613600. | 4833800. | 17 | 4 |
| QUEENSWAY HOSPITAL ETOBICOKE | 35005 | 69 | 615900. | 4829300. | 17 | 9 |
| EVANS/ARNOLD AV ETOBICOKE | 35033 | 69 | 619200. | 4830200. | 17 | 3 |
| 3050 LAKESHORE BLVD W ETOBICOKE | 35037 | 74 | 620100. | 4828500. | 17 | 3 |
| RADIATION LABS, RESOURCES RD TORONTO | 35051 | 80 | 617200. | 4840300. | 17 | 11 |
| 2487 LAKESHORE E/BIRKBECK RDS OAKVILLE | 44005 | 69 | 610600. | 4815000. | 17 | 2 |
| HWY 2/NORTH SHORE BLVD E BURLINGTON | 44008 | 79 | 597200. | 4796400. | 17 | 17 |
| BRONTE RD/WOBBURN CRES OAKVILLE | 44015 | 80 | 603100. | 4805900. | 17 | 5 |
| PICKERING FIRE HALL PICKERING | 45001 | 70 | 655100. | 4854800. | 17 | 1 |
| PUBLIC LIBRARY OSHAWA | 45011 | 62 | 671400. | 4862300. | 17 | 7 |
| RITSON RD/OLIVE AV OSHAWA | 45025 | 79 | 672700. | 4861800. | 17 | 5 |
| MISSISSAUGA PUBLIC LIBRARY MISSISSAUGA | 46025 | 70 | 611500. | 4825700. | 17 | 9 |
| BRAMALEA FIRE HALL BRAMALEA | 46033 | 69 | 605300. | 4839800. | 17 | 3 |
| 2414 DIXIE RD MISSISSAUGA | 46041 | 72 | 614700. | 4828700. | 17 | 5 |
| 2365 DIXIE RD MISSISSAUGA | 46045 | 73 | 614800. | 4828800. | 17 | 5 |
| 2360 DIXIE RD MISSISSAUGA | 46046 | 73 | 614700. | 4828600. | 17 | 12 |
| QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 46110 | 78 | 612200. | 4824900. | 17 | 5 |
| POST OFFICE, 17-25 PETER ST S ORILLIA | 47019 | 77 | 625500. | 4940600. | 17 | 10 |
| ARMOURY BLDG PARK/PARKSIDE ST BARRIE | 47042 | 82 | 603800. | 4915700. | 17 | 12 |
| TRAILER/MTC YARD #9, HWY47 STOUFFVILLE | 48002 | 80 | 639100. | 4869400. | 17 | 5 |
| 51 SHUTER ST PORT HOPE | 58027 | 75 | 717700. | 4869400. | 17 | 4 |

TABLE A-4 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

| LOCATION | ID | YR | UTM-X | UTM-Y | ZONE | ELEV (M) |
|--|-------|----|---------|----------|------|----------|
| FILT PLT, MARSH ST PORT HOPE | 58041 | 84 | 716700. | 4868800. | 17 | 1 |
| CAN TIRE, QUEEN ST PORT HOPE | 58042 | 84 | 717100. | 4869500. | 17 | 1 |
| CITY HALL, 500 GEORGE ST PETERBOROUGH | 59006 | 77 | 713700. | 4909500. | 17 | 18 |
| WEATHER STN ATIKOKAN | 62013 | 76 | 603000. | 5400800. | 15 | 1 |
| CEMETERY COLONIZATION RD W FORT FRANCES | 62032 | 76 | 469700. | 5384100. | 15 | 5 |
| LEGION BLDG, 250 CHURCH ST FORT FRANCES | 62035 | 83 | 470700. | 5383900. | 15 | 9 |
| HOSP ARCHIBALD/ARTHUR STS THUNDER BAY | 63005 | 70 | 333500. | 5360800. | 16 | 29 |
| DAWSON CT ALGOMA ST N THUNDER BAY | 63012 | 70 | 337200. | 5368600. | 16 | 9 |
| HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 63022 | 69 | 335600. | 5367200. | 16 | 22 |
| 435 JAMES ST S THUNDER BAY | 63040 | 75 | 330200. | 5360700. | 16 | 15 |
| CAN-CAR BLDG, MONTREAL ST THUNDER BAY | 63046 | 78 | 330000. | 5358400. | 16 | 3 |
| TRANSIT MAINT BD, WILLIAM RD THUNDER BAY | 63052 | 80 | 334500. | 5364700. | 16 | 9 |
| PUMPHOUSE, BONNEY ST S.S.MARIE | 71042 | 75 | 701100. | 5155500. | 16 | 1 |
| LAND RDG OFFICE, QUEEN ST S.S.MARIE | 71049 | 75 | 704700. | 5154300. | 16 | 6 |
| ST JOSEPHS HOSPITAL BLIND RIVER | 71065 | 82 | 348800. | 5116000. | 17 | 12 |
| FARWELL PUMPHOUSE S.S.MARIE | 71066 | 83 | 702400. | 5156100. | 16 | 4 |
| MINISTRY OF HEALTH BLDG TIMMINS | 72077 | 84 | 475500. | 5368500. | 17 | 5 |
| OPP STN NORTH BAY | 75010 | 79 | 619700. | 5130500. | 17 | 4 |
| ASH ST WATER TANK SUDBURY | 77016 | 69 | 499400. | 5148600. | 17 | 3 |
| 19 LISGAR ST SUDBURY | 77026 | 72 | 500600. | 5148500. | 17 | 14 |
| POST OFFICE, SPRUCE/BARBER ST ESPANOLA | 77029 | 77 | 440500. | 5123500. | 17 | 6 |
| PUMP HOUSE, NICKEL ST COPPER CLIFF | 77070 | 76 | 495000. | 5146200. | 17 | 5 |

TABLE A-5 SULPHUR DIOXIDE (SO₂) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | |
|--|--|-----------------------------|------|------|-------------|------|------|------|-------------------------|---------|------|--------------------------------|------|-----|
| YEAR - 1986 | | POLLUTANT - SULPHUR DIOXIDE | | | | | | | UNIT = PARTS/MILLION | | | RUN DATE JUN 26, 1987 | | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | 99 | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | | |
| | | | | | 50 | 70 | 90 | | | 1HR | 24HR | 1HR | 24HR | 1YR |
| 12007 | WRIGHT/WATER ST WINDSOR | 352 | .000 | .000 | .002 | .008 | .019 | .060 | .010 | 0.13 | 0.04 | 0 | 0 | 0 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 353 | .000 | .000 | .000 | .006 | .018 | .044 | .008 | 0.20 | 0.04 | 0 | 0 | 0 |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 361 | .000 | .000 | .000 | .002 | .009 | .028 | .005 | 0.13 | 0.03 | 0 | 0 | 0 |
| 12016 | COLLEGE/SOUTH ST WINDSOR | 356 | .000 | .000 | .000 | .002 | .014 | .044 | .006 | 0.14 | 0.04 | 0 | 0 | 0 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 347 | .000 | .000 | .002 | .006 | .012 | .030 | .008 | 0.10 | 0.03 | 0 | 0 | 0 |
| 12048 | MALDEN RD (S LAURIER DR) WINDSOR | 328 | .000 | .000 | .000 | .005 | .010 | .030 | .006 | 0.18 | 0.03 | 0 | 0 | 0 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 349 | .000 | .000 | .000 | .000 | .008 | .049 | .004 | 0.22 | 0.03 | 0 | 0 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 354 | .000 | .000 | .000 | .001 | .017 | .104 | .008 | 0.28 | 0.08 | 2 | 0 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 345 | .000 | .000 | .000 | .000 | .006 | .019 | .003 | 0.08 | 0.02 | 0 | 0 | 0 |
| 15015 | 951 COMMISSIONERS RD E LONDON | 168 | .000 | .000 | .000 | .000 | .005 | .012 | .002 | 0.04 | 0.01 | 0 | 0 | INS |
| 15016 | 801 COMMISSIONERS RD E LONDON | 154 | .000 | .000 | .000 | .000 | .006 | .021 | .003 | 0.08 | 0.03 | 0 | 0 | INS |
| 15017 | 8 MOUNTSFIELD DR LONDON | 220 | .000 | .000 | .000 | .000 | .000 | .010 | .001 | 0.03 | 0.02 | 0 | 0 | INS |
| 18007 | CONCESSION RD 2 LOT A TIVERTON | 361 | .000 | .000 | .000 | .000 | .001 | .014 | .001 | 0.04 | 0.02 | 0 | 0 | 0 |
| 22071 | EXPERIMENTAL FARM SIMCOE | 340 | .000 | .000 | .000 | .000 | .006 | .023 | .003 | 0.12 | 0.02 | 0 | 0 | 0 |
| 22086 | CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE | 339 | .000 | .000 | .000 | .000 | .004 | .032 | .002 | 0.33 | 0.03 | 2 | 0 | 0 |

TABLE A-5 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

| YEAR - 1986 | | POLLUTANT - SULPHUR DIOXIDE | | UNIT = PARTS/MILLION | | | | | | | | RUN DATE JUN 26, 1987 | | |
|-------------------|--|-----------------------------|------|----------------------|-------------|------|------|------|-------------------------|---------|------|--------------------------------|------|-----|
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | | |
| | | | | | 50 | 70 | 90 | 99 | | 1HR | 24HR | 1HR | 24HR | 1YR |
| 22094 | TOWNLINE RD/CON 13 TOWNSEND | 279 | .000 | .000 | .000 | .000 | .008 | .039 | .004 | 0.26 | 0.06 | 1 | 0 | 0 |
| 22901 | PROVINCIAL PARK LONG POINT | 326 | .000 | .000 | .000 | .000 | .004 | .020 | .002 | 0.07 | 0.03 | 0 | 0 | 0 |
| 22907 | RAINHAM RD (NEAR STELCO GATE) NANTICOKE | 313 | .000 | .000 | .000 | .000 | .004 | .024 | .002 | 0.16 | 0.03 | 0 | 0 | 0 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 278 | .000 | .000 | .000 | .000 | .007 | .023 | .003 | 0.17 | 0.03 | 0 | 0 | 0 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 267 | .000 | .000 | .000 | .002 | .009 | .029 | .005 | 0.13 | 0.04 | 0 | 0 | 0 |
| 27042 | NIAGARA FALLS RD/ONTARIO ST THOROLD | 361 | .000 | .000 | .000 | .000 | .000 | .098 | .005 | 1.29 | 0.21 | 16 | 1 | 0 |
| 27051 | HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA | 364 | .000 | .000 | .000 | .004 | .010 | .029 | .005 | 0.10 | 0.04 | 0 | 0 | 0 |
| 27052 | 185 QUEEN ST S THOROLD | 350 | .000 | .000 | .000 | .003 | .029 | .139 | .012 | 0.32 | 0.16 | 16 | 2 | 0 |
| 27055 | STP GROUNDS, STANLEY AV NIAGARA FALLS | 359 | .000 | .000 | .000 | .005 | .017 | .053 | .008 | 0.23 | 0.07 | 0 | 0 | 0 |
| 27056 | ALLENDAL AV NIAGARA FALLS | 353 | .000 | .000 | .000 | .000 | .007 | .025 | .003 | 0.06 | 0.03 | 0 | 0 | 0 |
| 27137 | NORTH/GENEVA ST API BKUP ST CATHARINES | 263 | .000 | .000 | .000 | .003 | .010 | .029 | .005 | 0.13 | 0.03 | 0 | 0 | 0 |
| 27156 | ALLENDAL AV API BKUP NIAGARA FALLS | 313 | .000 | .000 | .000 | .000 | .008 | .026 | .004 | 0.10 | 0.03 | 0 | 0 | 0 |
| 28028 | EXHIBITION ST/CLARK ST GUELPH | 333 | .000 | .000 | .000 | .000 | .007 | .019 | .003 | 0.06 | 0.02 | 0 | 0 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 354 | .000 | .000 | .000 | .004 | .020 | .059 | .008 | 0.14 | 0.05 | 0 | 0 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 341 | .000 | .000 | .000 | .006 | .026 | .062 | .010 | 0.12 | 0.07 | 0 | 0 | 0 |

TABLE A-5 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | |
|--|--|-----------------------------|------|------|-------------|------|------|------|-------------------------|---------|------|--------------------------------|------|-----|
| YEAR - 1986 | | POLLUTANT - SULPHUR DIOXIDE | | | | | | | UNIT = PARTS/MILLION | | | RUN DATE JUN 26, 1987 | | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | | |
| | | | | | 50 | 70 | 90 | 99 | | 1HR | 24HR | 1HR | 24HR | 1YR |
| 29105 | NASH RD/KENTLEY DR HAMILTON | 338 | .000 | .000 | .000 | .005 | .010 | .033 | .006 | 0.17 | 0.05 | 0 | 0 | 0 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 340 | .000 | .000 | .000 | .006 | .017 | .048 | .008 | 0.11 | 0.05 | 0 | 0 | 0 |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 364 | .000 | .000 | .000 | .005 | .012 | .041 | .007 | 0.24 | 0.04 | 0 | 0 | 0 |
| 29125 | BARTON/WENTWORTH API BKUP HAMILTON | 352 | .000 | .000 | .000 | .006 | .020 | .056 | .008 | 0.14 | 0.05 | 0 | 0 | 0 |
| 31103 | 26 BREADALBANE BKUP TORONTO | 361 | .000 | .000 | .000 | .000 | .008 | .036 | .004 | 0.14 | 0.03 | 0 | 0 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 364 | .000 | .000 | .000 | .000 | .008 | .036 | .004 | 0.14 | 0.04 | 0 | 0 | 0 |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 76 | .000 | .000 | .000 | .004 | .013 | .056 | .007 | 0.12 | 0.04 | 0 | 0 | INS |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 347 | .000 | .000 | .000 | .000 | .008 | .030 | .004 | 0.13 | 0.04 | 0 | 0 | 0 |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 242 | .000 | .000 | .000 | .000 | .006 | .014 | .003 | 0.11 | 0.01 | 0 | 0 | INS |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 346 | .000 | .000 | .000 | .000 | .008 | .029 | .003 | 0.13 | 0.03 | 0 | 0 | 0 |
| 33019 | REDLAND CR (SCARB BLUFFS) SCARBORO | 294 | .000 | .000 | .000 | .000 | .006 | .017 | .002 | 0.05 | 0.02 | 0 | 0 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 237 | .000 | .000 | .000 | .003 | .008 | .025 | .005 | 0.09 | 0.04 | 0 | 0 | INS |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 365 | .000 | .000 | .000 | .003 | .009 | .024 | .005 | 0.15 | 0.03 | 0 | 0 | 0 |
| 35005 | QUEENSWAY HOSPITAL ETOBICOKE | 282 | .000 | .000 | .000 | .002 | .009 | .032 | .005 | 0.24 | 0.05 | 0 | 0 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 347 | .000 | .000 | .000 | .000 | .008 | .024 | .004 | 0.10 | 0.03 | 0 | 0 | 0 |

TABLE A-5 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | |
|--|--|-----------------------------|------|------|-------------|------|----------------------|------|-------------------------|---------|------|--------------------------------|------|-----|
| YEAR - 1986 | | POLLUTANT - SULPHUR DIOXIDE | | | | | UNIT = PARTS/MILLION | | | | | RUN DATE JUN 26, 1987 | | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | 99 | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | | |
| | | | | | 50 | 70 | 90 | | | 1HR | 24HR | 1HR | 24HR | 1YR |
| 35050 | 125 RESOURCES RD (MOE LAB) ETOBICOKE | 234 | .000 | .000 | .000 | .000 | .005 | .016 | .002 | 0.08 | 0.02 | 0 | 0 | INS |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 352 | .000 | .000 | .000 | .000 | .008 | .022 | .004 | 0.08 | 0.03 | 0 | 0 | 0 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 356 | .000 | .000 | .000 | .000 | .012 | .056 | .005 | 0.18 | 0.09 | 0 | 0 | 0 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 353 | .000 | .000 | .000 | .000 | .006 | .023 | .003 | 0.10 | 0.04 | 0 | 0 | 0 |
| 46100 | PUB SCHOOL, GREEN GLADE RD MISSISSAUGA | 350 | .000 | .000 | .000 | .003 | .008 | .025 | .005 | 0.07 | 0.03 | 0 | 0 | 0 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 358 | .000 | .000 | .001 | .005 | .010 | .026 | .007 | 0.11 | 0.03 | 0 | 0 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 363 | .000 | .000 | .000 | .000 | .005 | .017 | .002 | 0.06 | 0.02 | 0 | 0 | 0 |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 350 | .000 | .000 | .000 | .000 | .005 | .015 | .002 | 0.06 | 0.03 | 0 | 0 | 0 |
| 49010 | HWY 117/PAINT LAKE RD DORSET | 359 | .000 | .000 | .000 | .000 | .000 | .010 | .001 | 0.06 | 0.01 | 0 | 0 | 0 |
| 51001 | MCD GDS, RIDEAU/WURTENBURG ST OTTAWA | 356 | .000 | .000 | .000 | .000 | .001 | .020 | .002 | 0.09 | 0.03 | 0 | 0 | 0 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 340 | .000 | .000 | .000 | .005 | .021 | .059 | .008 | 0.19 | 0.05 | 0 | 0 | 0 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 349 | .000 | .000 | .000 | .000 | .006 | .010 | .002 | 0.03 | 0.01 | 0 | 0 | 0 |
| 61014 | SEWAGE TREATMENT PLT BALMERTOWN | 355 | .000 | .000 | .000 | .000 | .000 | .237 | .008 | 0.79 | 0.16 | 79 | 2 | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 355 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 0.01 | 0.00 | 0 | 0 | 0 |
| 63040 | 435 JAMES ST S THUNDER BAY | 303 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | 0.15 | 0.02 | 0 | 0 | 0 |

TABLE A-5 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | | |
|--|--|-----------------------------|-------------|------|------|------|------|------|----------------------|-------------------------|---------|------|--------------------------------|-----|-----|
| YEAR - 1986 | | POLLUTANT - SULPHUR DIOXIDE | | | | | | | UNIT = PARTS/MILLION | | | | RUN DATE JUN 26, 1987 | | |
| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | | | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | | |
| | | | 10 | 30 | 50 | 70 | 90 | 99 | 1HR | | 24HR | 1HR | 24HR | 1YR | |
| 63100 | HAMKEYE LAKE | 93 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 0.01 | 0.00 | 0 | 0 | INS |
| 63200 | MTC 615 JAMES ST S THUNDER BAY | 55 | .000 | .000 | .000 | .000 | .000 | .000 | .005 | .000 | 0.01 | 0.00 | 0 | 0 | INS |
| 71057 | 38 MICHIPICOTEN AV MICHIPICOTEN HARBOUR | 228 | .000 | .000 | .000 | .000 | .005 | .135 | .005 | 0.70 | 0.08 | 14 | 0 | INS | |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 350 | .000 | .000 | .000 | .005 | .013 | .044 | .007 | 0.12 | 0.04 | 0 | 0 | 0 | |
| 75010 | OPP STN NORTH BAY | 344 | .000 | .000 | .000 | .000 | .004 | .020 | .002 | 0.08 | 0.02 | 0 | 0 | 0 | |
| 77012 | SKEAD | 352 | .000 | .000 | .000 | .000 | .016 | .159 | .009 | 0.56 | 0.12 | 32 | 1 | 0 | |
| 77013 | HANMER | 351 | .000 | .000 | .000 | .000 | .007 | .083 | .005 | 0.67 | 0.06 | 6 | 0 | 0 | |
| 77016 | WATER TANK, ASH ST SUDBURY | 359 | .000 | .000 | .000 | .000 | .018 | .106 | .008 | 0.55 | 0.06 | 7 | 0 | 0 | |
| 77028 | GOVERNMENT RD/EDWARD ST CONISTON | 342 | .000 | .000 | .000 | .000 | .010 | .106 | .006 | 0.28 | 0.06 | 4 | 0 | 0 | |
| 77065 | FALCONBRIDGE RD GARSON | 363 | .000 | .000 | .000 | .000 | .014 | .133 | .008 | 0.65 | 0.09 | 18 | 0 | 0 | |
| 77075 | KENNEDY ST NEW SUDBURY | 362 | .000 | .000 | .000 | .000 | .019 | .135 | .009 | 0.49 | 0.07 | 19 | 0 | 0 | |
| 77096 | LONG LAKE RD (VILLA LOYOLA) SUDBURY | 365 | .000 | .000 | .000 | .000 | .013 | .127 | .007 | 0.58 | 0.08 | 18 | 0 | 0 | |
| 77201 | MIKKOLA (J HAMILTON SCHOOL) WALDEN | 353 | .000 | .000 | .000 | .000 | .009 | .159 | .007 | 0.74 | 0.13 | 29 | 3 | 0 | |
| 77202 | HIGH FALLS | 108 | .000 | .000 | .000 | .000 | .014 | .065 | .006 | 0.37 | 0.07 | 4 | 0 | INS | |
| 77203 | SCIENCE NORTH SUDBURY | 352 | .000 | .000 | .000 | .000 | .011 | .100 | .007 | 0.46 | 0.08 | 13 | 0 | 0 | |
| 77206 | ST LAURENT/REGIONAL RD RAYSIDE | 336 | .000 | .000 | .000 | .000 | .006 | .073 | .004 | 0.56 | 0.10 | 10 | 0 | 0 | |

TABLE A-6 10-YEAR TREND FOR SO₂

| City | Annual Mean (ppm) | | | | | | | | | |
|---------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| BURLINGTON | .011 | .011 | .008 | .005 | .007 | .005 | .005 | .005 | .004 | .004 |
| CORNWALL | .017 | .017 | .013 | .012 | .010 | .010 | .008 | .009 | .009 | .008 |
| ETOBICOKE | .011 | .010 | .010 | .008 | .008 | .006 | .006 | .007 | .007 | .005 |
| HAMILTON | .023 | .016 | .017 | .013 | .010 | .014 | .014 | .015 | .009 | .008 |
| KITCHENER | .007 | .005 | .006 | .005 | .003 | .003 | .002 | .003 | .002 | .003 |
| LONDON | .010 | .009 | .007 | .005 | .009 | .004 | .003 | .004 | .002 | .003 |
| NIAGARA FALLS | .008 | .008 | .011 | .007 | .004 | .003 | .003 | .004 | .003 | .003 |
| NORTH BAY | .006 | .004 | .003 | .004 | .002 | .003 | .002 | .003 | .002 | .002 |
| NORTH YORK | .009 | .008 | .009 | .010 | .010 | .012 | .006 | .009 | .008 | .005 |
| OAKVILLE | .009 | .009 | .009 | .007 | .005 | .007 | .005 | .007 | .006 | .005 |
| PETERBORO | .004 | .004 | .003 | .004 | .003 | .003 | .002 | .003 | .002 | .002 |
| SARNIA | .023 | .016 | .017 | .013 | .014 | .012 | .010 | .009 | .011 | .008 |
| SCARBORO | .012 | .006 | .005 | .008 | .007 | .004 | .003 | .004 | .003 | .003 |
| SIMCOE | .011 | .007 | .009 | .007 | .004 | .004 | .003 | .004 | .005 | .003 |
| ST CATHARINES | .007 | .007 | .007 | .004 | .007 | .005 | .005 | .005 | .006 | .005 |
| SUDBURY | .015 | .012 | .012 | .016 | .010 | .010 | .009 | .010 | .010 | .008 |
| TORONTO | .014 | .011 | .008 | .007 | .008 | .006 | .004 | .006 | .004 | .004 |
| WINDSOR | .022 | .018 | .013 | .011 | .012 | .009 | .008 | .007 | .007 | .008 |

TABLE A-7 SOILING INDEX (COH) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | |
|--|--|---------------------------|-------------|------|------|------|------|------|-------------------------|---------------------|------|--------------------------------|-----|
| YEAR - 1986 | | POLLUTANT - SOILING INDEX | | | | | | | | UNIT = COHS/1000 FT | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | |
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | 1HR | 24HR | 24HR | 1YR |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 360 | 0.00 | 0.19 | 0.30 | 0.46 | 0.78 | 1.71 | 0.43 | 3.3 | 1.7 | 7 | 0 |
| 12016 | COLLEGE/SOUTH ST WINDSOR | 358 | 0.00 | 0.19 | 0.29 | 0.46 | 0.79 | 1.64 | 0.42 | 4.0 | 1.3 | 7 | 0 |
| 12038 | 2885 HOWARD AV WINDSOR | 295 | 0.05 | 0.23 | 0.38 | 0.58 | 0.97 | 2.00 | 0.52 | 4.4 | 1.5 | 10 | 1 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 240 | 0.07 | 0.25 | 0.43 | 0.64 | 1.14 | 2.26 | 0.59 | 4.4 | 2.4 | 25 | INS |
| 12049 | 643 ALEXANDRINE WINDSOR | 277 | 0.02 | 0.18 | 0.30 | 0.48 | 0.87 | 1.90 | 0.45 | 4.4 | 2.0 | 11 | 0 |
| 12108 | 467 UNIV AV W BKUP WINDSOR | 362 | 0.00 | 0.21 | 0.32 | 0.49 | 0.82 | 1.81 | 0.45 | 3.5 | 1.8 | 8 | 0 |
| 12116 | COLLEGE/PRINCE BKUP WINDSOR | 362 | 0.06 | 0.20 | 0.30 | 0.46 | 0.79 | 1.67 | 0.44 | 4.0 | 1.4 | 9 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 362 | 0.00 | 0.12 | 0.22 | 0.35 | 0.60 | 1.14 | 0.31 | 3.2 | 1.7 | 2 | 0 |
| 14164 | CENTENNIAL PK BKUP SARNIA | 362 | 0.00 | 0.10 | 0.19 | 0.30 | 0.53 | 0.98 | 0.28 | 3.2 | 1.6 | 1 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 351 | 0.00 | 0.11 | 0.21 | 0.33 | 0.57 | 1.17 | 0.30 | 2.9 | 1.3 | 2 | 0 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 308 | 0.00 | 0.04 | 0.10 | 0.20 | 0.40 | 0.72 | 0.20 | 1.2 | 0.8 | 0 | 0 |
| 22071 | EXPERIMENTAL FARM SIMCOE | 74 | 0.00 | 0.00 | 0.15 | 0.23 | 0.37 | 0.70 | 0.20 | 1.3 | 0.7 | 0 | INS |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 262 | 0.00 | 0.06 | 0.17 | 0.26 | 0.47 | 0.90 | 0.24 | 2.1 | 0.8 | 0 | 0 |
| 27052 | 185 QUEEN ST S THOROLD | 353 | 0.03 | 0.12 | 0.19 | 0.30 | 0.51 | 1.06 | 0.30 | 3.2 | 1.0 | 0 | 0 |
| 27055 | STP GROUNDS, STANLEY AV NIAGARA FALLS | 264 | 0.04 | 0.14 | 0.23 | 0.36 | 0.61 | 1.15 | 0.34 | 2.2 | 1.3 | 1 | 0 |

TABLE A-7 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | |
|--|--|---------------------------|-------------|------|------|------|------|------|-------------------------|---------------------|------|--------------------------------|-----|
| YEAR - 1986 | | POLLUTANT - SOILING INDEX | | | | | | | | UNIT = COHS/1000 FT | | | |
| | | | | | | | | | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | |
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | 1HR | 24HR | 24HR | 1YR |
| 27056 | ALLENDAL AV NIAGARA FALLS | 351 | 0.00 | 0.00 | 0.12 | 0.21 | 0.38 | 0.78 | 0.28 | 2.9 | 0.9 | 0 | 0 |
| 27137 | NORTH/GENEVA ST API BKUP ST CATHARINES | 262 | 0.00 | 0.11 | 0.18 | 0.27 | 0.47 | 0.92 | 0.26 | 3.2 | 0.9 | 0 | 0 |
| 27156 | ALLENDAL AV API BKUP NIAGARA FALLS | 352 | 0.00 | 0.00 | 0.13 | 0.22 | 0.39 | 0.82 | 0.20 | 2.1 | 1.1 | 1 | 0 |
| 29001 | HUGHSON/HUNTER HAMILTON | 304 | 0.11 | 0.23 | 0.36 | 0.52 | 0.91 | 1.69 | 0.50 | 4.9 | 1.7 | 10 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 353 | 0.02 | 0.27 | 0.43 | 0.66 | 1.08 | 1.89 | 0.57 | 4.2 | 1.6 | 27 | 1 |
| 29102 | 467 BEACH BLVD HAMILTON | 356 | 0.00 | 0.00 | 0.19 | 0.37 | 0.69 | 1.28 | 0.31 | 2.4 | 1.3 | 1 | 0 |
| 29105 | NASH RD/KENTLEY DR HAMILTON | 264 | 0.01 | 0.14 | 0.28 | 0.45 | 0.70 | 1.29 | 0.38 | 3.8 | 1.1 | 1 | 0 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 361 | 0.03 | 0.12 | 0.20 | 0.33 | 0.63 | 1.34 | 0.33 | 2.6 | 1.2 | 3 | 0 |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 348 | 0.03 | 0.14 | 0.25 | 0.41 | 0.85 | 1.67 | 0.41 | 2.8 | 1.6 | 9 | 0 |
| 29125 | BARTON/WENTWORTH API BKUP HAMILTON | 356 | 0.01 | 0.23 | 0.37 | 0.57 | 0.97 | 1.80 | 0.51 | 3.3 | 1.6 | 21 | 1 |
| 31049 | MISSION, 381 YONGE ST TORONTO | 338 | 0.21 | 0.38 | 0.56 | 0.78 | 1.19 | 1.92 | 0.69 | 3.8 | 1.6 | 40 | 1 |
| 31103 | 26 BREADALBANE BKUP TORONTO | 363 | 0.00 | 0.14 | 0.23 | 0.36 | 0.63 | 1.20 | 0.33 | 3.2 | 1.0 | 0 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 363 | 0.02 | 0.18 | 0.28 | 0.41 | 0.69 | 1.33 | 0.39 | 3.5 | 1.1 | 1 | 0 |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 83 | 0.05 | 0.25 | 0.38 | 0.55 | 0.95 | 1.65 | 0.50 | 2.5 | 1.1 | 1 | INS |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 362 | 0.00 | 0.16 | 0.26 | 0.39 | 0.68 | 1.40 | 0.37 | 3.7 | 1.2 | 5 | 0 |

TABLE A-7 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | |
|--|--|---------------------------|------|-------------------|------|------|------|------|-------------------------|---------------------|-----|--|-----|
| YEAR - 1986 | | POLLUTANT - SOILING INDEX | | | | | | | UNIT = COHS/1000 FT | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | PERCENTILES 30 | 50 | 70 | 90 | 99 | ARITH- METIC MEAN | MAXIMUM 1HR 24HR | | NO. OF TIMES ABOVE CRITERIA 24HR 1YR | |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 294 | 0.00 | 0.01 | 0.05 | 0.10 | 0.21 | 0.50 | 0.12 | 1.9 | 0.6 | 0 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 341 | 0.00 | 0.14 | 0.24 | 0.37 | 0.67 | 1.34 | 0.34 | 3.9 | 1.1 | 1 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 301 | 0.11 | 0.26 | 0.40 | 0.59 | 0.98 | 1.75 | 0.54 | 3.6 | 1.5 | 12 | 1 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 292 | 0.00 | 0.06 | 0.18 | 0.33 | 0.64 | 1.29 | 0.30 | 2.9 | 1.2 | 2 | 0 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 343 | 0.00 | 0.10 | 0.22 | 0.37 | 0.66 | 1.37 | 0.33 | 2.8 | 1.3 | 3 | 0 |
| 51001 | MCD GDS, RIDEAU/MURTENBURG ST OTTAWA | 328 | 0.00 | 0.00 | 0.06 | 0.17 | 0.33 | 0.73 | 0.15 | 2.1 | 0.6 | 0 | 0 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 359 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.44 | 0.06 | 1.4 | 0.4 | 0 | 0 |
| 63040 | 435 JAMES ST S THUNDER BAY | 180 | 0.00 | 0.04 | 0.10 | 0.22 | 0.49 | 1.18 | 0.23 | 2.7 | 1.0 | 0 | INS |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 348 | 0.00 | 0.05 | 0.17 | 0.35 | 0.84 | 2.26 | 0.36 | 4.2 | 1.7 | 9 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 361 | 0.00 | 0.00 | 0.06 | 0.18 | 0.36 | 0.88 | 0.16 | 3.1 | 0.9 | 0 | 0 |
| 77028 | GOVERNMENT RD/EDWARD ST CONISTON | 358 | 0.00 | 0.00 | 0.00 | 0.13 | 0.28 | 0.80 | 0.12 | 2.3 | 0.5 | 0 | 0 |
| 77075 | KENNEDY ST NEW SUDBURY | 361 | 0.00 | 0.00 | 0.04 | 0.17 | 0.32 | 0.89 | 0.15 | 2.9 | 0.6 | 0 | 0 |
| 77203 | SCIENCE NORTH SUDBURY | 338 | 0.00 | 0.01 | 0.09 | 0.20 | 0.42 | 1.11 | 0.20 | 4.3 | 1.0 | 0 | 0 |

TABLE A-8 10-YEAR TREND FOR COH

| City | Annual Mean (COH/1000 ft.) | | | | | | | | | |
|------------|----------------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CORNWALL | .19 | .18 | .20 | .18 | .10 | .16 | .18 | .16 | .09 | .06 |
| ETOBICOKE | .54 | .44 | .58 | .42 | .31 | .49 | .37 | .52 | .47 | .54 |
| HAMILTON | .54 | .56 | .63 | .54 | .58 | .57 | .44 | .55 | .52 | .57 |
| LONDON | .27 | .32 | .32 | .33 | .30 | .32 | .31 | .29 | .30 | .30 |
| NORTH YORK | .54 | .51 | .55 | .48 | .54 | .60 | .57 | .62 | .56 | - |
| OTTAWA | .20 | .16 | .23 | .14 | .18 | .18 | .18 | .19 | .14 | .15 |
| SARNIA | .26 | .35 | .30 | .27 | .28 | .27 | .27 | .29 | .25 | .31 |
| SCARBORO | .33 | .41 | .37 | .35 | .40 | .37 | .32 | .36 | .34 | .34 |
| SUDBURY | .10 | .13 | .12 | .13 | .12 | .12 | .12 | .15 | .13 | .16 |
| TORONTO | .40 | .40 | .39 | .34 | .45 | .46 | .41 | .47 | .36 | .39 |
| WINDSOR | .55 | .51 | .47 | .42 | .41 | .43 | .47 | .46 | .41 | .43 |

TABLE A-9 TOTAL REDUCED SULPHUR (TRS) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | |
|--|--|-----------------------------------|-----|-----|-------------|-----|-----|------|-------------------------|---------|--------------------------|--------------------------------------|
| YEAR - 1986 | | POLLUTANT - TOTAL REDUCED SULPHUR | | | | | | | UNIT = PARTS/BILLION | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | 99 | ARITH- METIC MEAN | MAXIMUM | | NO OF TIMES ABOVE CRITERIA 1HR |
| | | | | | 50 | 70 | 90 | | | 1HR | 24HR | |
| 12007 | WRIGHT/WATER ST WINDSOR | 364 | 0.0 | 0.0 | 0.0 | 0.2 | 4.5 | 30.4 | 2.0 | 151 | 30 | 108 |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 346 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 3.9 | 0.3 | 13 | 6 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 358 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.2 | 19 | 4 | 0 |
| 18007 | CONCESSION RD 2 LOT A TIVERTON | 354 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.1 | 11 | 2 | 0 |
| 22086 | CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE | 318 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 3.3 | 0.4 | 14 | 4 | 0 |
| 22904 | WALPOLE S PS, SANDUSK RD NANTICOKE | 302 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.1 | 13 | 2 | 0 |
| 22907 | RAINHAM RD (NEAR STELCO GATE) NANTICOKE | 327 | 0.0 | 0.0 | 0.0 | 0.1 | 1.6 | 9.2 | 0.8 | 51 | 11 | 11 |
| 27051 | HOLY T CHURCH, NORTON/PORTAGE CHIPPAWA | 320 | 0.0 | 0.0 | 0.0 | 2.0 | 5.6 | 17.1 | 2.2 | 47 | 13 | 15 |
| 27052 | 185 QUEEN ST S THOROLD | 342 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 31.7 | 1.9 | 163 | 33 | 109 |
| 27055 | STP GROUNDS, STANLEY AV NIAGARA FALLS | 339 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 13.0 | 1.2 | 44 | 12 | 10 |
| 29025 | BARTON/WENTWORTH HAMILTON | 359 | 0.0 | 0.0 | 0.2 | 0.8 | 3.1 | 10.8 | 1.4 | 64 | 11 | 5 |
| 29102 | 467 BEACH BLVD HAMILTON | 356 | 0.0 | 0.0 | 0.0 | 0.8 | 3.4 | 12.2 | 1.3 | 42 | 8 | 4 |
| 44015 | BRONTE RD/MOBYRN CRES OAKVILLE | 355 | 0.0 | 0.1 | 1.2 | 2.4 | 5.4 | 10.8 | 2.4 | 93 | 12 | 6 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 364 | 0.0 | 0.0 | 0.4 | 1.3 | 3.8 | 37.7 | 2.6 | 188 | 48 | 123 |
| 56068 | SCHOOL, 435 SECOND ST W CORNWALL | 301 | 0.0 | 0.0 | 0.0 | 1.0 | 4.2 | 16.6 | 1.7 | 83 | 16 | 23 |

TABLE A-9 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | |
|--|---|-----------------------------------|-------------|-----|-------------------------|-----|------|-------|---------|----------------------|-------------------------------|------|
| YEAR - 1986 | | POLLUTANT - TOTAL REDUCED SULPHUR | | | | | | | | UNIT = PARTS/BILLION | | |
| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | ARITH- METIC MEAN | | | | MAXIMUM | | NO OF TIMES ABOVE CRITERIA | |
| | | | 10 | 30 | 50 | 70 | 90 | 99 | 1HR | 24HR | 1HR | 24HR |
| 56071 | ST PETERS SCHOOL CORNWALL | 355 | 0.0 | 0.0 | 0.0 | 3.2 | 17.4 | 109.9 | 7.3 | 240 | 84 | 607 |
| 61027 | 35 VAN HORNE AV DRYDEN | 352 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 15.0 | 1.0 | 77 | 8 | 12 |
| 62030 | PORTAGE/CHURCH ST FORT FRANCES | 126 | 0.0 | 0.0 | 0.3 | 4.7 | 21.7 | 70.0 | 7.2 | 226 | 35 | 217 |
| 62032 | CEMETERY, COLONIZATION RD W FORT FRANCES | 325 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 17.8 | 1.2 | 133 | 11 | 37 |
| 62051 | VICTORIA AV (BOISE CASCADE) FORT FRANCES | 62 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 15.1 | 1.1 | 54 | 14 | 7 |
| 63034 | PENINSULA BLDG MARATHON | 319 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 33.6 | 2.1 | 131 | 19 | 115 |
| 63046 | CAN-CAR, MONTREAL ST THUNDER BAY | 337 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 12.2 | 1.0 | 56 | 9 | 4 |
| 63084 | RECREATION CENTRE RED ROCK | 354 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 27.6 | 1.9 | 80 | 21 | 87 |
| 63090 | ST MARTIN SCHOOL TERRACE BAY | 352 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 25.5 | 1.5 | 155 | 28 | 72 |
| 63200 | MTC 615 JAMES ST S THUNDER BAY | 53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.1 | 7 | 1 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 187 | 0.0 | 0.0 | 0.0 | 0.4 | 1.0 | 6.9 | 0.7 | 22 | 5 | 0 |
| 72084 | ROSS RD SMOOTH ROCK FALLS | 192 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 8.6 | 0.6 | 72 | 8 | 2 |
| 77203 | SCIENCE NORTH SUDBURY | 320 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 2.7 | 0.3 | 6 | 5 | 0 |

TABLE A-10 10-YEAR TREND FOR TRS

| City | Annual Mean (ppb) | | | | | | | | | |
|--------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CORNWALL | 2.4 | 3.0 | 3.1 | 2.8 | 1.8 | 2.0 | 3.4 | 1.5 | .8 | 2.6 |
| FORT FRANCES | 3.3 | 2.5 | 2.9 | 3.3 | 3.1 | 2.1 | 2.8 | 1.9 | 1.1 | 1.2 |
| HAMILTON | 1.3 | 1.6 | 2.4 | .9 | 1.3 | 1.2 | 1.4 | 1.8 | 1.4 | 1.4 |
| THUNDER BAY | 1.5 | 1.9 | 2.6 | 2.9 | 2.8 | 1.0 | .5 | .6 | .8 | 1.0 |

TABLE A-11 CARBON MONOXIDE (CO) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | |
|--|--|-----------------------------|-----|-----|-----|-----|-----|------|-------------------------|----------------------|-----|---------------------------------------|-----|
| YEAR - 1986 | | POLLUTANT - CARBON MONOXIDE | | | | | | | | UNIT = PARTS/MILLION | | | |
| | | | | | | | | | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | 50 | 70 | 90 | 99 | ARITH- METIC MEAN | MAXIMUM 1HR | 8HR | NO. OF TIMES ABOVE CRITERIA 1HR | 8HR |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 349 | 0.0 | 0.0 | 0.0 | 0.3 | 1.0 | 3.2 | 0.5 | 13 | 5 | 0 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 318 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.9 | 0.2 | 10 | 4 | 0 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 331 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 2.7 | 0.3 | 10 | 6 | 0 | 0 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 320 | 0.0 | 0.0 | 0.3 | 0.7 | 1.3 | 3.5 | 0.9 | 13 | 5 | 0 | 0 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 256 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.9 | 0.2 | 8 | 3 | 0 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 356 | 0.0 | 0.2 | 0.5 | 0.8 | 1.6 | 3.5 | 1.1 | 12 | 8 | 0 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 341 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.7 | 0.3 | 7 | 3 | 0 | 0 |
| 31049 | MISSION, 381 YONGE ST TORONTO | 355 | 0.6 | 1.5 | 2.2 | 3.4 | 6.1 | 16.0 | 3.5 | 27 | 19 | 0 | 15 |
| 31104 | 26 BREADALBANE TORONTO | 360 | 0.0 | 0.1 | 0.4 | 0.8 | 1.4 | 2.9 | 1.0 | 14 | 5 | 0 | 0 |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 83 | 0.0 | 0.2 | 0.5 | 0.8 | 1.5 | 2.8 | 1.1 | 6 | 3 | 0 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 361 | 0.0 | 0.0 | 0.3 | 0.7 | 1.1 | 3.0 | 0.8 | 13 | 6 | 0 | 0 |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 321 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.0 | 0.3 | 4 | 2 | 0 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 359 | 0.0 | 0.1 | 0.4 | 0.8 | 1.6 | 3.6 | 1.0 | 9 | 5 | 0 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 337 | 0.1 | 0.4 | 0.7 | 1.0 | 1.7 | 3.0 | 1.3 | 8 | 6 | 0 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 317 | 0.1 | 0.3 | 0.6 | 0.8 | 1.5 | 2.9 | 1.2 | 6 | 4 | 0 | 0 |

TABLE A-11 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | |
|--|--|-----------------------------|-----|-------------|-----|-----|-----|-----|----------------------|-------------------------|---------|-----|--------------------------------|-----|
| YEAR - 1986 | | POLLUTANT - CARBON MONOXIDE | | | | | | | UNIT = PARTS/MILLION | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | PERCENTILES | | | | 90 | 99 | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | |
| | | | | 30 | 50 | 70 | | | | | 1HR | 8HR | 1HR | 8HR |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 339 | 0.0 | 0.3 | 0.7 | 1.0 | 1.9 | 5.0 | 1.4 | 13 | 9 | | 0 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 327 | 0.0 | 0.3 | 0.5 | 0.7 | 1.0 | 2.3 | 1.0 | 11 | 4 | | 0 | 0 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 354 | 0.0 | 0.0 | 0.4 | 0.8 | 1.7 | 4.4 | 1.0 | 11 | 5 | | 0 | 0 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 304 | 0.0 | 0.1 | 0.5 | 1.0 | 1.9 | 3.9 | 1.2 | 13 | 6 | | 0 | 0 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 338 | 0.1 | 0.4 | 0.7 | 1.1 | 1.9 | 4.3 | 1.4 | 13 | 6 | | 0 | 0 |
| 51001 | MCD GDS, RIDEAU/WURTEBURG ST OTTAWA | 263 | 0.0 | 0.0 | 0.0 | 0.3 | 1.4 | 4.6 | 0.6 | 13 | 6 | | 0 | 0 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 354 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.0 | 0.2 | 11 | 4 | | 0 | 0 |
| 63200 | MTC 615 JAMES ST S THUNDER BAY | 61 | 0.0 | 0.0 | 0.0 | 0.5 | 1.1 | 4.5 | 0.7 | 18 | 6 | | 0 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 348 | 0.0 | 0.0 | 0.0 | 0.3 | 1.0 | 3.7 | 0.6 | 11 | 5 | | 0 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 351 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.1 | 8 | 4 | | 0 | 0 |
| 77203 | SCIENCE NORTH SUDBURY | 154 | 0.0 | 0.0 | 0.0 | 0.5 | 1.5 | 2.5 | 0.6 | 6 | 4 | | 0 | 0 |

TABLE A-12 10-YEAR TREND FOR CO

| City | Annual Mean (ppm) | | | | | | | | | |
|---------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CORNWALL | .7 | .5 | .9 | 1.1 | 1.1 | 1.0 | .2 | .2 | .2 | .2 |
| ETOBICOKE | 1.3 | 1.6 | 1.3 | 1.1 | 1.0 | 1.1 | 1.6 | 1.4 | 1.3 | 1.2 |
| HAMILTON | 1.4 | 1.2 | 1.5 | .9 | 1.2 | 1.1 | .9 | .8 | 1.2 | 1.1 |
| KITCHENER | 1.3 | 1.4 | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | .9 | .8 | .9 |
| LONDON | 1.1 | .9 | .4 | .3 | .4 | .3 | .3 | .4 | .3 | .3 |
| NORTH YORK | 1.4 | 1.9 | 1.6 | 1.4 | 1.7 | 2.3 | - | 1.3 | 1.4 | 1.3 |
| OTTAWA | .9 | .5 | 1.0 | 1.2 | 1.3 | .9 | .2 | .3 | .6 | .6 |
| SARNIA | 1.8 | .4 | .3 | .3 | .2 | .2 | .1 | .1 | .2 | .2 |
| SCARBORO | 1.8 | 2.0 | 1.5 | 1.5 | 1.4 | 1.6 | 1.2 | 1.4 | 1.3 | 1.0 |
| ST CATHARINES | 1.5 | .9 | .9 | .6 | 1.0 | .4 | .4 | .4 | .2 | .2 |
| SUDBURY | .8 | .3 | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| TORONTO | 1.6 | 1.8 | 1.5 | - | 1.3 | 1.5 | 1.1 | 1.0 | 1.1 | 1.0 |
| WINDSOR | 2.2 | 2.2 | 2.0 | 1.7 | 1.1 | .5 | .8 | .5 | .5 | .5 |

TABLE A-13 TOTAL HYDROCARBON (THC) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | |
|--|--|--------------------------------|------|------|-------------|------|------|------|-------------------------|---------|------|--------------------------|--|
| YEAR - 1986 | | POLLUTANT - TOTAL HYDROCARBONS | | | | | | | UNIT = PARTS/MILLION | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | | | |
| | | | | | 50 | 70 | 90 | 99 | | 1HR | 24HR | | |
| ----- | | | | | | | | | | | | | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 318 | 1.79 | 1.94 | 2.05 | 2.19 | 2.50 | 3.75 | 2.15 | 12.9 | 3.7 | | |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 354 | 0.96 | 1.18 | 1.47 | 1.81 | 2.27 | 3.54 | 1.62 | 8.8 | 4.6 | | |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 311 | 2.22 | 2.44 | 2.64 | 2.88 | 3.40 | 4.94 | 2.80 | 9.3 | 4.5 | | |
| 31104 | 26 BREADALBANE TORONTO | 318 | 1.11 | 1.35 | 1.51 | 1.69 | 2.04 | 3.19 | 1.61 | 5.0 | 3.3 | | |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 350 | 1.47 | 1.68 | 1.85 | 2.05 | 2.53 | 4.22 | 2.01 | 10.1 | 4.2 | | |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 291 | 1.65 | 1.86 | 2.04 | 2.28 | 2.77 | 3.92 | 2.20 | 6.4 | 3.3 | | |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 330 | 1.49 | 1.86 | 2.15 | 2.44 | 3.08 | 4.11 | 2.28 | 5.2 | 4.2 | | |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 333 | 1.72 | 1.91 | 2.09 | 2.31 | 2.93 | 5.05 | 2.31 | 15.1 | 3.8 | | |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 332 | 1.45 | 1.63 | 1.79 | 2.00 | 2.44 | 3.46 | 1.94 | 6.1 | 3.3 | | |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 285 | 1.39 | 1.66 | 1.88 | 2.15 | 2.60 | 3.87 | 2.01 | 8.6 | 3.4 | | |

TABLE A-14 10-YEAR TREND FOR THC

| City | Annual Mean (ppm) | | | | | | | | | |
|------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| ETOBICOKE | 2.17 | 2.56 | 2.29 | 2.17 | 2.19 | 2.28 | 2.58 | 2.23 | 2.39 | 2.31 |
| LONDON | 2.22 | 2.43 | 2.30 | 2.41 | 2.36 | 2.48 | 2.57 | 2.89 | 2.85 | 2.80 |
| NORTH YORK | 2.53 | 2.03 | 1.67 | 1.48 | 1.68 | 2.11 | 2.31 | 2.19 | 2.18 | 2.28 |
| SARNIA | 2.64 | 2.64 | 1.99 | 1.86 | 2.09 | 2.12 | 2.02 | 2.04 | 1.93 | 1.62 |
| SCARBORO | 2.03 | 1.87 | 1.64 | 1.54 | 2.00 | 1.83 | 1.90 | 2.08 | 2.39 | 2.20 |
| TORONTO | 1.60 | 1.48 | 1.32 | 1.43 | 1.71 | 1.66 | 1.37 | 1.89 | 1.76 | 1.61 |
| WINDSOR | 2.35 | 2.27 | 1.86 | 2.22 | 2.18 | 2.12 | 2.09 | 2.29 | 2.08 | 2.15 |

TABLE A-15 REACTIVE HYDROCARBON (RHC) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | |
|--|--|-----------------------------------|-------------|------|--------|----------------------|------|------|---------|--------------|-----|
| YEAR - 1986 | | POLLUTANT - REACTIVE HYDROCARBONS | | | | UNIT = PARTS/MILLION | | | | RUN DATE | |
| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | ARITH- | | | | MAXIMUM | JUN 26, 1987 | |
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | | |
| | | | | | | | | | 1HR | 24HR | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 288 | 0.12 | 0.20 | 0.25 | 0.29 | 0.42 | 0.88 | 0.32 | 2.4 | 1.0 |
| 22071 | EXPERIMENTAL FARM SIMCOE | 303 | 0.06 | 0.12 | 0.15 | 0.17 | 0.20 | 0.29 | 0.19 | 0.6 | 0.3 |
| 22086 | CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE | 53 | 0.00 | 0.00 | 0.00 | 0.04 | 0.08 | 0.28 | 0.06 | 1.3 | 0.2 |
| 22904 | WALPOLE S PS, SANDUSK RD NANTICOKE | 258 | 0.00 | 0.00 | 0.01 | 0.10 | 0.19 | 0.41 | 0.09 | 2.8 | 0.4 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 252 | 0.00 | 0.04 | 0.09 | 0.17 | 0.36 | 0.77 | 0.19 | 5.1 | 0.8 |
| 29025 | BARTON/WENTWORTH HAMILTON | 342 | 0.01 | 0.04 | 0.08 | 0.13 | 0.24 | 0.63 | 0.16 | 1.9 | 0.6 |
| 29102 | 467 BEACH BLVD HAMILTON | 317 | 0.03 | 0.13 | 0.21 | 0.28 | 0.38 | 0.57 | 0.26 | 1.4 | 0.6 |

TABLE A-16 NITROGEN DIOXIDE (NO₂) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | |
|--|--|------------------------------|------|------|-------------|----------------------|------|------|-------------------------|---------|------|--------------------------------|------|
| YEAR - 1986 | | POLLUTANT - NITROGEN DIOXIDE | | | | UNIT = PARTS/MILLION | | | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | |
| | | | | | 50 | 70 | 90 | 99 | | 1HR | 24HR | 1HR | 24HR |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 346 | .002 | .011 | .018 | .026 | .039 | .077 | .025 | .14 | .07 | 0 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 357 | .000 | .006 | .013 | .022 | .037 | .066 | .021 | .12 | .05 | 0 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 320 | .004 | .013 | .019 | .026 | .038 | .059 | .026 | .11 | .06 | 0 | 0 |
| 22071 | EXPERIMENTAL FARM SIMCOE | 327 | .000 | .000 | .000 | .003 | .010 | .028 | .005 | .09 | .04 | 0 | 0 |
| 22086 | CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE | 348 | .000 | .000 | .000 | .002 | .009 | .026 | .005 | .07 | .03 | 0 | 0 |
| 22901 | PROVINCIAL PARK LONG POINT | 330 | .000 | .000 | .001 | .006 | .012 | .029 | .007 | .06 | .03 | 0 | 0 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 337 | .007 | .017 | .025 | .034 | .048 | .073 | .032 | .13 | .09 | 0 | 0 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 263 | .000 | .006 | .012 | .018 | .030 | .052 | .019 | .11 | .05 | 0 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 338 | .003 | .014 | .022 | .029 | .040 | .065 | .027 | .10 | .07 | 0 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 298 | .000 | .010 | .019 | .027 | .038 | .057 | .023 | .12 | .05 | 0 | 0 |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 356 | .000 | .005 | .009 | .017 | .029 | .059 | .018 | .12 | .08 | 0 | 0 |
| 31049 | MISSION, 381 YONGE ST TORONTO | 344 | .009 | .019 | .027 | .035 | .049 | .080 | .033 | .13 | .09 | 0 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 362 | .004 | .014 | .021 | .028 | .040 | .068 | .027 | .12 | .07 | 0 | 0 |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 83 | .001 | .009 | .015 | .021 | .029 | .042 | .020 | .06 | .04 | 0 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 362 | .009 | .019 | .027 | .036 | .050 | .080 | .034 | .18 | .08 | 0 | 0 |

TABLE A-16 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

| YEAR - 1986 | | POLLUTANT - NITROGEN DIOXIDE | | UNIT = PARTS/MILLION | | | | | | | | RUN DATE JUN 26, 1987 | |
|-------------------|--|------------------------------|------|----------------------|-------------|------|------|------|-------------------------|---------|------|--------------------------------|------|
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA | |
| | | | | | 50 | 70 | 90 | 99 | | 1HR | 24HR | 1HR | 24HR |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 305 | .001 | .006 | .010 | .015 | .020 | .033 | .016 | .20 | .03 | 0 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 355 | .000 | .007 | .016 | .024 | .038 | .068 | .022 | .12 | .06 | 0 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 330 | .005 | .012 | .017 | .023 | .031 | .049 | .023 | .11 | .05 | 0 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 345 | .006 | .014 | .020 | .028 | .040 | .062 | .027 | .12 | .07 | 0 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 357 | .007 | .018 | .027 | .037 | .050 | .075 | .033 | .14 | .08 | 0 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 341 | .002 | .009 | .014 | .020 | .031 | .051 | .021 | .09 | .05 | 0 | 0 |
| 44015 | BRONTE RD/MOBYRN CRES OAKVILLE | 350 | .000 | .006 | .013 | .020 | .034 | .067 | .020 | .21 | .05 | 1 | 0 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 355 | .000 | .006 | .014 | .023 | .036 | .063 | .021 | .12 | .06 | 0 | 0 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 283 | .007 | .014 | .020 | .027 | .037 | .055 | .026 | .10 | .06 | 0 | 0 |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 356 | .000 | .002 | .006 | .009 | .020 | .039 | .012 | .07 | .04 | 0 | 0 |
| 49010 | HWY 117/PAINT LAKE RD DORSET | 345 | .000 | .000 | .000 | .001 | .008 | .024 | .004 | .13 | .04 | 0 | 0 |
| 51001 | MCD GDS, RIDEAU/WURTENBURG ST OTTAWA | 357 | .000 | .000 | .006 | .013 | .024 | .040 | .012 | .09 | .04 | 0 | 0 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 360 | .000 | .000 | .004 | .009 | .019 | .045 | .011 | .08 | .05 | 0 | 0 |
| 63100 | HAWKEYE LAKE | 91 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .01 | .00 | 0 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 349 | .000 | .005 | .010 | .016 | .027 | .050 | .017 | .31 | .07 | 2 | 0 |
| 77203 | SCIENCE NORTH SUDBURY | 357 | .000 | .000 | .004 | .008 | .017 | .037 | .010 | .07 | .03 | 0 | 0 |

TABLE A-17 10-YEAR TREND FOR NO₂

| City | Annual Mean (ppm) | | | | | | | | | |
|---------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CORNWALL | .017 | .012 | .011 | .011 | .011 | .010 | .011 | .011 | .010 | .011 |
| ETOBICOKE | .022 | .025 | .022 | .018 | .022 | .021 | .021 | .024 | .026 | .027 |
| HAMILTON | .056 | .046 | .029 | .027 | .029 | .031 | .029 | .029 | .025 | .027 |
| KITCHENER | .035 | .032 | .030 | .026 | .026 | .028 | .025 | .027 | .029 | .032 |
| LONDON | .028 | .031 | .030 | .020 | .017 | .021 | .021 | .024 | .025 | .026 |
| NORTH YORK | .023 | .026 | .023 | .020 | .014 | .022 | .023 | .026 | .027 | .023 |
| OAKVILLE | .020 | .020 | .022 | .023 | .020 | .018 | .016 | .018 | .016 | .020 |
| OTTAWA | .020 | .018 | .012 | .017 | .016 | .015 | .014 | .014 | .012 | .012 |
| SARNIA | .027 | .031 | .019 | .022 | .018 | .022 | .020 | .023 | .019 | .021 |
| SCARBORO | .040 | .031 | .027 | .030 | .025 | .025 | .019 | .018 | .018 | .022 |
| SIMCOE | .012 | .014 | .010 | .012 | .014 | .010 | .009 | .009 | .006 | .005 |
| ST CATHARINES | .024 | .022 | .026 | .020 | .022 | .019 | .020 | .018 | .017 | .019 |
| SUDBURY | .013 | .012 | .006 | .006 | .007 | .006 | .006 | .006 | .007 | .010 |
| TORONTO | .032 | .032 | .029 | .028 | .025 | .027 | .025 | .027 | .026 | .027 |
| WINDSOR | .033 | .040 | .033 | .031 | .030 | .029 | .026 | .027 | .026 | .025 |

TABLE A-18 NITRIC OXIDE (NO) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986

POLLUTANT - NITRIC OXIDE

UNIT = PARTS/MILLION

RUN DATE
JUN 26, 1987

| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | |
|-------------------|--|----------------|-------------|------|-------------|------|------|------|-------------------------|---------|------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | 1HR | 24HR |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 356 | .000 | .003 | .007 | .013 | .039 | .166 | .021 | 0.45 | 0.14 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 349 | .000 | .000 | .000 | .005 | .019 | .089 | .009 | 0.37 | 0.15 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 305 | .000 | .000 | .002 | .011 | .044 | .189 | .019 | 0.49 | 0.18 |
| 22071 | EXPERIMENTAL FARM SIMCOE | 296 | .000 | .000 | .003 | .006 | .009 | .019 | .007 | 0.10 | 0.03 |
| 22086 | CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE | 346 | .000 | .000 | .000 | .000 | .000 | .010 | .001 | 0.35 | 0.02 |
| 22901 | PROVINCIAL PARK LONG POINT | 322 | .000 | .000 | .000 | .000 | .000 | .007 | .000 | 0.04 | 0.02 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 341 | .000 | .003 | .014 | .045 | .138 | .362 | .051 | 0.75 | 0.26 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 253 | .000 | .000 | .000 | .003 | .017 | .090 | .008 | 0.30 | 0.08 |
| 29025 | BARTON/WENTWORTH HAMILTON | 350 | .000 | .000 | .006 | .016 | .051 | .163 | .022 | 0.50 | 0.15 |
| 29102 | 467 BEACH BLVD HAMILTON | 291 | .000 | .000 | .004 | .021 | .058 | .146 | .022 | 0.43 | 0.14 |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 356 | .000 | .003 | .008 | .019 | .071 | .249 | .029 | 0.53 | 0.20 |
| 31049 | MISSION, 381 YONGE ST TORONTO | 343 | .018 | .039 | .065 | .110 | .189 | .350 | .094 | 0.95 | 0.31 |
| 31104 | 26 BREADALBANE TORONTO | 358 | .000 | .000 | .006 | .017 | .052 | .180 | .022 | 0.42 | 0.20 |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 83 | .005 | .016 | .029 | .050 | .103 | .228 | .049 | 0.42 | 0.14 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 362 | .000 | .000 | .006 | .015 | .053 | .192 | .023 | 0.57 | 0.17 |

TABLE A-18 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986

POLLUTANT - NITRIC OXIDE

UNIT = PARTS/MILLION

RUN DATE
JUN 26, 1987

| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | | | | | ARITH- METIC MEAN | MAXIMUM | |
|-------------------|--|----------------|-------------|------|------|------|------|------|-------------------------|---------|------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | 1HR | 24HR |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 313 | .000 | .000 | .000 | .000 | .000 | .033 | .002 | 0.14 | 0.04 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 355 | .000 | .000 | .011 | .029 | .079 | .233 | .032 | 0.54 | 0.16 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 319 | .000 | .001 | .006 | .012 | .053 | .184 | .022 | 0.46 | 0.16 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 336 | .000 | .003 | .009 | .020 | .073 | .262 | .031 | 0.71 | 0.19 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 360 | .000 | .009 | .027 | .057 | .125 | .314 | .054 | 0.85 | 0.24 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 333 | .000 | .000 | .005 | .012 | .045 | .185 | .020 | 0.64 | 0.13 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 361 | .000 | .000 | .003 | .012 | .051 | .189 | .020 | 0.68 | 0.12 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 352 | .000 | .000 | .000 | .008 | .044 | .162 | .016 | 0.57 | 0.11 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 332 | .000 | .002 | .009 | .025 | .075 | .264 | .032 | 0.54 | 0.19 |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 353 | .000 | .000 | .000 | .000 | .008 | .039 | .004 | 0.12 | 0.03 |
| 49010 | HWY 117/PAINT LAKE RD DORSET | 346 | .000 | .000 | .000 | .001 | .016 | .024 | .005 | 0.06 | 0.03 |
| 51001 | MCD GDS, RIDEAU/MURTENBURG ST OTTAWA | 357 | .000 | .000 | .000 | .003 | .026 | .115 | .010 | 0.47 | 0.07 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 362 | .000 | .000 | .000 | .000 | .007 | .099 | .005 | 0.39 | 0.07 |
| 63100 | HAWKEYE LAKE | 91 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 0.01 | 0.00 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 349 | .001 | .006 | .013 | .021 | .041 | .109 | .023 | 0.34 | 0.08 |
| 77203 | SCIENCE NORTH SUDBURY | 354 | .000 | .000 | .000 | .005 | .012 | .062 | .008 | 0.25 | 0.09 |

TABLE A-19 10-YEAR TREND FOR NO

| City | Annual Mean (ppm) | | | | | | | | | |
|---------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CORNWALL | .016 | .008 | .009 | .007 | .006 | .005 | .008 | .007 | .008 | .005 |
| ETOBICOKE | .032 | .026 | .027 | .019 | .026 | .027 | .026 | .026 | .027 | .031 |
| HAMILTON | .030 | .027 | .030 | .021 | .024 | .024 | .018 | .023 | .019 | .022 |
| KITCHENER | .049 | .046 | .044 | .037 | .058 | .038 | .045 | .046 | .047 | .051 |
| LONDON | .020 | .020 | .018 | .016 | .018 | .015 | .014 | .017 | .013 | .019 |
| NORTH YORK | .025 | .036 | .034 | .028 | .050 | .036 | .030 | .027 | .028 | .022 |
| OAKVILLE | .021 | .028 | .018 | .020 | .020 | .015 | .012 | .017 | .016 | .020 |
| OTTAWA | .026 | .020 | .026 | .013 | .015 | .013 | .009 | .012 | .011 | .010 |
| SARNIA | .017 | .019 | .017 | .010 | .014 | .009 | .010 | .008 | .007 | .009 |
| SCARBORO | .049 | .049 | .037 | .029 | .034 | .028 | .028 | .033 | .032 | .032 |
| SIMCOE | .009 | .005 | .003 | .001 | .002 | .002 | .002 | .005 | .004 | .007 |
| ST CATHARINES | .022 | .021 | .022 | .009 | .014 | .008 | .009 | .016 | .009 | .008 |
| SUDBURY | .010 | .007 | .006 | .005 | .006 | .007 | .005 | .007 | .010 | .008 |
| TORONTO | .026 | .022 | .019 | .016 | .023 | .022 | .019 | .021 | .019 | .022 |
| WINDSOR | .032 | .027 | .021 | .019 | .017 | .011 | .016 | .028 | .015 | .021 |

TABLE A-20 TOTAL NITROGEN OXIDE (NO_x) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | |
|--|--|-----------------------------|------|------|-------------|----------------------|------|------|-------------------------|--------------------------|------|
| YEAR - 1986 | | POLLUTANT - NITROGEN OXIDES | | | | UNIT = PARTS/MILLION | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | 30 | PERCENTILES | | | | ARITH- METIC MEAN | MAXIMUM | |
| | | | | | 50 | 70 | 90 | 99 | | 1HR | 24HR |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 341 | .010 | .021 | .030 | .044 | .078 | .221 | .046 | 0.53 | 0.18 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 346 | .000 | .007 | .017 | .030 | .058 | .138 | .030 | 0.43 | 0.19 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 305 | .006 | .017 | .028 | .044 | .080 | .224 | .044 | 0.56 | 0.21 |
| 22071 | EXPERIMENTAL FARM SIMCOE | 285 | .000 | .002 | .006 | .010 | .019 | .044 | .012 | 0.15 | 0.06 |
| 22086 | CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE | 346 | .000 | .000 | .002 | .007 | .015 | .039 | .008 | 0.34 | 0.04 |
| 22901 | PROVINCIAL PARK LONG POINT | 303 | .000 | .000 | .000 | .002 | .010 | .036 | .005 | 0.09 | 0.05 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 298 | .012 | .028 | .047 | .088 | .185 | .404 | .083 | 0.79 | 0.32 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 250 | .000 | .007 | .015 | .026 | .049 | .127 | .027 | 0.34 | 0.11 |
| 29025 | BARTON/WENTWORTH HAMILTON | 336 | .006 | .021 | .035 | .050 | .091 | .210 | .049 | 0.54 | 0.20 |
| 29102 | 467 BEACH BLVD HAMILTON | 303 | .000 | .012 | .032 | .053 | .092 | .194 | .045 | 0.48 | 0.24 |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 356 | .003 | .013 | .021 | .042 | .103 | .292 | .047 | 0.59 | 0.23 |
| 31049 | MISSION, 381 YONGE ST TORONTO | 333 | .036 | .067 | .099 | .149 | .236 | .407 | .128 | 1.03 | 0.36 |
| 31104 | 26 BREADALBANE TORONTO | 324 | .007 | .019 | .032 | .048 | .090 | .214 | .048 | 0.43 | 0.22 |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 83 | .015 | .034 | .052 | .076 | .131 | .258 | .070 | 0.46 | 0.17 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 362 | .011 | .025 | .038 | .056 | .104 | .262 | .056 | 0.72 | 0.22 |

TABLE A-20 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986

POLLUTANT - NITROGEN OXIDES

UNIT = PARTS/MILLION

RUN DATE
JUN 26, 1987

| STATION NUMBER | LOCATION | NO. OF DAYS | PERCENTILES | | | | | | ARITH- METIC MEAN | MAXIMUM | |
|-------------------|--|----------------|-------------|------|------|------|------|------|-------------------------|---------|------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | 1HR | 24HR |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 302 | .001 | .006 | .011 | .016 | .024 | .060 | .017 | 0.20 | 0.07 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 354 | .000 | .014 | .033 | .058 | .118 | .288 | .055 | 0.61 | 0.21 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 318 | .010 | .020 | .029 | .041 | .084 | .218 | .046 | 0.50 | 0.18 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 323 | .012 | .024 | .036 | .054 | .113 | .304 | .059 | 0.75 | 0.23 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 351 | .011 | .034 | .059 | .092 | .167 | .368 | .083 | 0.99 | 0.32 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 330 | .004 | .014 | .024 | .037 | .077 | .230 | .041 | 0.71 | 0.16 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 353 | .000 | .009 | .020 | .037 | .088 | .243 | .040 | 0.76 | 0.17 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 349 | .000 | .008 | .020 | .038 | .078 | .203 | .038 | 0.62 | 0.16 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 282 | .012 | .025 | .037 | .057 | .113 | .313 | .059 | 0.59 | 0.21 |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 351 | .000 | .003 | .007 | .014 | .029 | .072 | .016 | 0.16 | 0.06 |
| 49010 | HWY 117/PAINT LAKE RD DORSET | 346 | .000 | .000 | .000 | .007 | .018 | .044 | .008 | 0.15 | 0.06 |
| 51001 | MCD GDS, RIDEAU/WURTEBURG ST OTTAWA | 357 | .000 | .000 | .008 | .020 | .052 | .148 | .023 | 0.47 | 0.11 |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 359 | .000 | .000 | .005 | .010 | .029 | .123 | .016 | 0.48 | 0.11 |
| 63100 | HAWKEYE LAKE | 91 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | 0.01 | 0.00 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 350 | .010 | .018 | .028 | .041 | .069 | .147 | .040 | 0.38 | 0.11 |
| 77203 | SCIENCE NORTH SUDBURY | 354 | .000 | .004 | .008 | .015 | .029 | .095 | .018 | 0.30 | 0.12 |

TABLE A-21 OZONE (O₃) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | | |
|--|--|-------------------|------|----------------------|------|------|------|------|------|----|-------------------------|---------|-----|---------------------------------------|--|
| YEAR - 1986 | | POLLUTANT - OZONE | | UNIT = PARTS/BILLION | | | | | | | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | PERCENTILES | | | | | 90 | 99 | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA 1HR | |
| | | | | 30 | 50 | 70 | | | | | 1HR | 24HR | | | |
| 10001 | COLLEGE OF AGRIC TECH HURON PARK | 333 | 8.7 | 17.0 | 23.9 | 30.6 | 44.9 | 72.9 | 26.1 | | 107 | 64 | 44 | | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 353 | 0.0 | 4.2 | 12.2 | 22.0 | 42.2 | 72.8 | 17.4 | | 104 | 59 | 39 | | |
| 13021 | MOE WATER PUMP STN, MIDDLE RD MERLIN | 333 | 3.7 | 11.0 | 17.5 | 24.6 | 36.1 | 62.2 | 19.8 | | 91 | 56 | 5 | | |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 362 | 1.5 | 10.9 | 18.8 | 26.9 | 39.1 | 68.8 | 20.9 | | 114 | 55 | 30 | | |
| 14118 | PUC BLDG, HWY 21 MANDAUMIN | 326 | 3.7 | 12.5 | 20.7 | 29.0 | 43.5 | 71.7 | 23.1 | | 108 | 57 | 41 | | |
| 14119 | PUC BLDG THEDFORD | 342 | 5.7 | 15.2 | 23.6 | 33.3 | 46.5 | 72.8 | 26.0 | | 121 | 68 | 44 | | |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 357 | 0.4 | 7.7 | 15.6 | 23.7 | 38.2 | 65.1 | 18.4 | | 99 | 57 | 14 | | |
| 15013 | PUC BLDG PARKHILL | 325 | 4.9 | 13.7 | 21.9 | 30.7 | 45.9 | 76.6 | 24.9 | | 140 | 74 | 57 | | |
| 18007 | CONCESSION RD 2 LOT A TIVERTON | 357 | 11.4 | 19.4 | 25.4 | 32.8 | 43.7 | 68.4 | 27.5 | | 131 | 69 | 31 | | |
| 22071 | EXPERIMENTAL FARM SIMCOE | 356 | 7.9 | 17.9 | 25.2 | 32.9 | 48.4 | 75.9 | 27.6 | | 105 | 68 | 53 | | |
| 22901 | PROVINCIAL PARK LONG POINT | 325 | 10.0 | 20.5 | 28.3 | 36.3 | 55.9 | 91.6 | 31.4 | | 124 | 90 | 165 | | |
| 26029 | EDNA/FREDERICK STS KITCHENER | 342 | 0.0 | 7.1 | 13.5 | 21.0 | 36.1 | 67.3 | 17.0 | | 116 | 74 | 33 | | |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 269 | 2.6 | 12.0 | 19.7 | 26.7 | 41.8 | 70.1 | 21.9 | | 91 | 65 | 11 | | |
| 28028 | EXHIBITION ST/CLARK ST GUELPH | 254 | 3.0 | 12.4 | 20.8 | 28.3 | 42.4 | 69.2 | 22.7 | | 102 | 66 | 24 | | |
| 29025 | BARTON/WENTWORTH HAMILTON | 289 | 0.3 | 5.0 | 12.3 | 21.2 | 36.7 | 63.2 | 16.4 | | 88 | 63 | 5 | | |

TABLE A-21 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | | |
|--|--|-------------------|-----|----------------------|------|------|------|------|------|-------------------------|---------|------|---------------------------------------|--------------------------|--|
| YEAR - 1986 | | POLLUTANT - OZONE | | UNIT = PARTS/BILLION | | | | | | | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | PERCENTILES | | | | 90 | 99 | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA 1HR | | |
| | | | | 30 | 50 | 70 | | | | | 1HR | 24HR | | | |
| 29105 | NASH RD/KENTLEY DR HAMILTON | 330 | 0.0 | 8.1 | 16.1 | 25.2 | 39.9 | 65.7 | 19.2 | | 96 | 62 | 11 | | |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 316 | 0.1 | 8.3 | 16.8 | 25.9 | 42.3 | 72.4 | 20.1 | | 94 | 65 | 34 | | |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 345 | 0.0 | 3.9 | 11.8 | 20.2 | 34.3 | 59.3 | 15.0 | | 85 | 60 | 3 | | |
| 31104 | 26 BREADALBANE TORONTO | 350 | 1.0 | 4.7 | 10.6 | 18.4 | 31.9 | 61.0 | 14.6 | | 86 | 54 | 11 | | |
| 31105 | SHERBOURNE/WILTON STS TORONTO | 83 | 0.1 | 2.2 | 6.1 | 10.6 | 16.8 | 24.0 | 7.9 | | 38 | 15 | 0 | | |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 345 | 0.0 | 3.5 | 11.1 | 20.7 | 36.3 | 72.0 | 15.6 | | 97 | 53 | 36 | | |
| 31190 | CN TOWER, 301 FRONT ST W TORONTO | 319 | 3.2 | 6.2 | 13.5 | 25.6 | 39.1 | 63.2 | 18.7 | | 91 | 60 | 7 | | |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 347 | 0.0 | 4.4 | 12.1 | 21.2 | 38.2 | 73.2 | 16.6 | | 110 | 61 | 46 | | |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 305 | 0.0 | 1.2 | 4.9 | 9.1 | 17.2 | 36.8 | 7.4 | | 70 | 34 | 0 | | |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 359 | 0.0 | 2.9 | 12.0 | 22.2 | 39.6 | 78.0 | 16.8 | | 113 | 69 | 75 | | |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 354 | 0.0 | 2.0 | 7.6 | 15.0 | 31.3 | 70.0 | 12.8 | | 102 | 65 | 28 | | |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 335 | 0.4 | 8.5 | 16.7 | 25.0 | 41.5 | 73.2 | 19.8 | | 99 | 55 | 46 | | |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 355 | 0.0 | 7.2 | 15.9 | 23.8 | 38.7 | 71.2 | 18.5 | | 97 | 61 | 31 | | |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 360 | 0.2 | 7.1 | 15.5 | 23.1 | 33.7 | 60.6 | 17.2 | | 112 | 61 | 20 | | |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 324 | 0.0 | 4.8 | 11.9 | 20.1 | 35.4 | 65.9 | 15.7 | | 103 | 54 | 17 | | |

TABLE A-21 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | | | | |
|--|--|-------------------|------|----------------------|------|------|------|------|------|-------------------------|---------|------|---------------------------------------|--------------------------|--|
| YEAR - 1986 | | POLLUTANT - OZONE | | UNIT = PARTS/BILLION | | | | | | | | | | RUN DATE JUN 26, 1987 | |
| STATION NUMBER | LOCATION | NO. OF DAYS | 10 | PERCENTILES | | | | 90 | 99 | ARITH- METIC MEAN | MAXIMUM | | NO. OF TIMES ABOVE CRITERIA 1HR | | |
| | | | | 30 | 50 | 70 | | | | | 1HR | 24HR | | | |
| 47035 | 509 VICTORIA ST E ALLISTON | 363 | 4.6 | 14.7 | 22.1 | 29.6 | 41.0 | 64.4 | 23.6 | | 96 | 55 | 7 | | |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 353 | 3.8 | 12.3 | 18.7 | 24.2 | 35.2 | 59.6 | 20.0 | | 103 | 59 | 7 | | |
| 49010 | HWY 117/PAINT LAKE RD DORSET | 359 | 9.4 | 18.5 | 25.2 | 30.5 | 39.4 | 61.3 | 25.6 | | 89 | 60 | 8 | | |
| 51001 | MCD GDS, RIDEAU/MURTENBURG ST OTTAWA | 360 | 0.8 | 8.4 | 16.0 | 23.3 | 32.9 | 52.7 | 17.3 | | 76 | 56 | 0 | | |
| 56051 | MEMORIAL PK, BEDFORD/THIRD STS CORNWALL | 363 | 3.3 | 14.0 | 21.7 | 28.3 | 40.8 | 63.8 | 22.8 | | 97 | 67 | 16 | | |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 345 | 3.3 | 10.5 | 16.7 | 22.4 | 32.2 | 55.0 | 18.1 | | 104 | 53 | 19 | | |
| 63040 | 435 JAMES ST S THUNDER BAY | 287 | 0.1 | 8.1 | 15.7 | 22.2 | 29.8 | 41.0 | 16.0 | | 56 | 38 | 0 | | |
| 63100 | HAWKEYE LAKE | 319 | 11.7 | 20.7 | 26.6 | 32.3 | 40.7 | 55.1 | 27.1 | | 83 | 55 | 5 | | |
| 63200 | MTC 615 JAMES ST S THUNDER BAY | 56 | 0.0 | 6.7 | 15.2 | 20.7 | 25.7 | 29.6 | 14.2 | | 32 | 28 | 0 | | |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 350 | 3.1 | 8.3 | 13.0 | 17.9 | 27.1 | 35.8 | 14.6 | | 61 | 36 | 0 | | |
| 77016 | WATER TANK, ASH ST SUDBURY | 364 | 5.4 | 12.1 | 15.9 | 19.9 | 27.2 | 48.9 | 17.1 | | 88 | 58 | 2 | | |
| 77203 | SCIENCE NORTH SUDBURY | 256 | 9.9 | 18.1 | 23.9 | 29.7 | 39.0 | 63.0 | 25.2 | | 104 | 67 | 8 | | |

TABLE A-22 10-YEAR TREND FOR O₃

| City | Annual Mean (ppb) | | | | | | | | | |
|---------------|-------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CORNWALL | 18.7 | 25.7 | 23.4 | 24.8 | 22.7 | 21.5 | 22.7 | 27.6 | 25.8 | 22.8 |
| ETOBICOKE | 16.7 | 19.1 | 11.0 | 13.4 | 14.5 | 15.6 | 15.7 | 16.5 | 18.1 | 16.8 |
| HAMILTON | 16.6 | 16.3 | 15.3 | 17.4 | 16.3 | 16.9 | 18.7 | 18.0 | 19.0 | 16.4 |
| HURON PARK | 29.6 | 29.8 | 25.9 | 23.6 | 23.9 | 23.4 | 24.2 | 26.5 | 26.5 | 26.1 |
| KITCHENER | 24.9 | 27.6 | 20.5 | 20.7 | 18.8 | 17.8 | 18.9 | 18.3 | 19.9 | 17.0 |
| LONDON | 20.9 | 20.5 | 16.6 | 18.5 | 19.8 | 21.3 | 21.0 | 19.4 | 21.3 | 18.4 |
| MANDAUMIN | 26.5 | 29.3 | 27.2 | 22.3 | 23.4 | 22.5 | 19.1 | 25.9 | 27.9 | 23.1 |
| MERLIN | 28.3 | 28.2 | 24.7 | 23.6 | 23.8 | 25.3 | 22.6 | 21.0 | 22.0 | 19.8 |
| NORTH YORK | 10.6 | 14.5 | 13.1 | 16.3 | 15.6 | 14.5 | 18.3 | 15.5 | 11.8 | 7.4 |
| OAKVILLE | 21.9 | 20.5 | - | 23.0 | 17.3 | 16.0 | 18.1 | 16.7 | 19.6 | 18.5 |
| OTTAWA | 19.2 | 19.2 | 17.2 | 15.4 | 15.2 | 17.1 | 17.6 | 17.8 | 19.2 | 17.3 |
| SARNIA | 19.5 | 22.7 | 23.2 | 21.6 | 21.3 | 22.7 | 23.0 | 23.3 | 22.9 | 20.9 |
| SCARBORO | 14.9 | 17.2 | 14.4 | 13.8 | 13.3 | 14.8 | 16.7 | 14.9 | 13.9 | 16.6 |
| SIMCOE | 33.6 | 35.2 | 28.1 | 26.3 | 28.9 | 32.3 | 30.0 | 28.7 | 30.6 | 27.6 |
| ST CATHARINES | 22.1 | 24.0 | 18.8 | 20.8 | 20.0 | 21.2 | 23.2 | 20.3 | 17.9 | 21.9 |
| STOUFFVILLE | 25.7 | 28.9 | 24.2 | 22.8 | 19.4 | 22.7 | 20.5 | 21.0 | 23.3 | 20.0 |
| TORONTO | 15.8 | 17.3 | 16.4 | 15.7 | 15.3 | 14.3 | 16.7 | 17.1 | 16.2 | 14.6 |
| WINDSOR | 20.6 | 18.0 | 15.7 | 19.9 | 18.8 | 18.1 | 18.7 | 18.9 | 19.7 | 17.4 |

TABLE A-23 TOTAL SUSPENDED PARTICULATE (TSP) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - SUSPENDED PARTICULATE | | | UNIT - MICROGRAMS/CU.METRE | | | | | | | NO OF TIMES ABOVE CRITERIA | |
|----------------|--|-----------------------------------|----|----|----------------------------|-----|-----|-----|-----|------------|-----------|----------------------------|------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | 24-HR | 1-YR |
| 10015 | PUC BLDG, 64 WEST ST GODERICH | 58 | 16 | 25 | 31 | 41 | 52 | 81 | 106 | 34 | 31 | 0 | 0 |
| 11001 | 309 THOMAS ST ST MARYS | 61 | 21 | 33 | 41 | 48 | 83 | 111 | 119 | 45 | 40 | 0 | 0 |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 38 | 54 | 61 | 72 | 90 | 126 | 138 | 64 | 61 | 1 | 1 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 27 | 39 | 50 | 61 | 79 | 99 | 108 | 51 | 48 | 0 | 0 |
| 12006 | BEACH LANE/HWY 18 LA SALLE | 57 | 44 | 56 | 66 | 79 | 105 | 114 | 115 | 70 | 67 | 0 | 1 |
| 12007 | WRIGHT/WATER ST WINDSOR | 57 | 48 | 59 | 68 | 83 | 127 | 145 | 154 | 77 | 72 | 8 | 1 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 35 | 52 | 66 | 81 | 113 | 154 | 193 | 70 | 63 | 21 | 1 |
| 12009 | 9725 RIVERSIDE DR E LITTLE RIVER | 56 | 25 | 37 | 45 | 58 | 75 | 97 | 109 | 49 | 45 | 0 | 0 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 26 | 39 | 56 | 75 | 100 | 150 | 164 | 61 | 53 | 3 | 0 |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 60 | 42 | 60 | 82 | 108 | 144 | 254 | 267 | 99 | 85 | 15 | 1 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 53 | 70 | 83 | 103 | 130 | 205 | 213 | 93 | 86 | 7 | 1 |
| 12016 | COLLEGE/SOUTH ST WINDSOR | 76 | 38 | 51 | 69 | 87 | 131 | 197 | 199 | 77 | 68 | 12 | 1 |
| 12036 | 1802 GEORGE AV WINDSOR | 59 | 39 | 50 | 60 | 72 | 91 | 111 | 118 | 62 | 58 | 0 | 0 |
| 12037 | 3225 CALIFORNIA ST WINDSOR | 55 | 38 | 49 | 57 | 64 | 74 | 102 | 107 | 57 | 55 | 0 | 0 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 48 | 61 | 70 | 78 | 112 | 135 | 144 | 73 | 69 | 5 | 1 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 35 | 53 | 66 | 71 | 90 | 116 | 120 | 64 | 61 | 0 | 1 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 53 | 34 | 45 | 52 | 57 | 68 | 76 | 79 | 51 | 49 | 0 | 0 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 35 | 48 | 57 | 70 | 84 | 114 | 124 | 59 | 56 | 1 | 0 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 29 | 51 | 63 | 73 | 114 | 130 | 131 | 65 | 58 | 2 | INS |
| 12053 | 415 FRONT ST AMHERSTBURG | 44 | 19 | 34 | 45 | 51 | 66 | 98 | 101 | 44 | 39 | 0 | 0 |
| 12115 | HWY 18/PROSPECT BKUP WINDSOR | 26 | 15 | 27 | 31 | 39 | 45 | 52 | 53 | 32 | 28 | 0 | INS |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 27 | 35 | 49 | 54 | 77 | 95 | 99 | 49 | 45 | 0 | 0 |
| 14001 | GENERAL HOSPITAL, 220 MITTON ST SARNIA | 57 | 21 | 32 | 38 | 50 | 64 | 89 | 107 | 42 | 38 | 0 | 0 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 343 | 18 | 28 | 37 | 50 | 70 | 110 | 260 | 42 | 36 | 2 | 0 |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 58 | 19 | 27 | 33 | 43 | 59 | 69 | 71 | 36 | 33 | 0 | 0 |
| 14031 | RR1 (W OF BARN) MOORETOWN | 54 | 18 | 27 | 34 | 41 | 55 | 69 | 70 | 36 | 33 | 0 | 0 |

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - SUSPENDED PARTICULATE

UNIT - MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | | | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | NO OF TIMES ABOVE CRITERIA | |
|-------------------|----------------------------------|------------------|----|----|-------------|-----|-----|-----|-------|---------------|--------------|-------------------------------|-----|
| | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | 24-HR | | | 1-YR | |
| 14054 | SARNIA YACHT CLUB, POINT EDWARD | | | | | | | | | | | | |
| | SARNIA | 61 | 21 | 34 | 39 | 52 | 75 | 109 | 109 | 45 | 40 | 0 | 0 |
| 14059 | ST CLAIR BLVD/HWY 40 | | | | | | | | | | | | |
| | CORUNNA | 58 | 20 | 28 | 35 | 41 | 59 | 75 | 85 | 36 | 34 | 0 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS | | | | | | | | | | | | |
| | SARNIA | 58 | 29 | 36 | 47 | 54 | 77 | 99 | 109 | 49 | 45 | 0 | 0 |
| 14151 | DAVID/FRONT ST | | | | | | | | | | | | |
| | SARNIA | 59 | 22 | 32 | 40 | 50 | 83 | 114 | 116 | 47 | 41 | 0 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY | | | | | | | | | | | | |
| | LONDON | 57 | 26 | 40 | 53 | 64 | 92 | 133 | 161 | 56 | 50 | 1 | 0 |
| 15003 | 362 DUNDAS ST | | | | | | | | | | | | |
| | LONDON | 55 | 24 | 39 | 46 | 57 | 82 | 122 | 130 | 52 | 46 | 1 | 0 |
| 15006 | 16 ALEXANDRIA ST | | | | | | | | | | | | |
| | ST THOMAS | 49 | 31 | 40 | 50 | 61 | 89 | 121 | 139 | 56 | 51 | 1 | 0 |
| 15007 | 1012 TALBOT ST | | | | | | | | | | | | |
| | ST THOMAS | 30 | 35 | 43 | 52 | 76 | 87 | 96 | 97 | 58 | 54 | 0 | INS |
| 15008 | EDGEWARE RD (NNW VARTA PLT) | | | | | | | | | | | | |
| | ST THOMAS | 53 | 17 | 27 | 35 | 43 | 56 | 107 | 128 | 38 | 34 | 1 | 0 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | | | | | | | | | | | | |
| | | 114 | 14 | 23 | 30 | 37 | 57 | 109 | 129 | 34 | 30 | 1 | 0 |
| 15014 | POND MILLS RD/DEVERON CRES | | | | | | | | | | | | |
| | LONDON | 36 | 30 | 38 | 44 | 48 | 67 | 75 | 76 | 46 | 43 | 0 | INS |
| 15015 | 951 COMMISSIONERS RD E | | | | | | | | | | | | |
| | LONDON | 35 | 21 | 29 | 36 | 41 | 58 | 83 | 90 | 38 | 35 | 0 | INS |
| 15016 | 801 COMMISSIONERS RD E | | | | | | | | | | | | |
| | LONDON | 37 | 22 | 32 | 36 | 48 | 67 | 78 | 80 | 41 | 37 | 0 | INS |
| 15017 | 8 MOUNTSFIELD DR | | | | | | | | | | | | |
| | LONDON | 36 | 25 | 35 | 41 | 46 | 68 | 76 | 76 | 44 | 41 | 0 | INS |
| 17006 | ST ANTHONY'S SS, HWY 2 | | | | | | | | | | | | |
| | BEACHVILLE | 58 | 35 | 49 | 66 | 85 | 168 | 263 | 315 | 85 | 71 | 10 | 1 |
| 17020 | HWY 2 RR 2 (J SPRIEL PROP) | | | | | | | | | | | | |
| | INGERSOLL | 53 | 32 | 42 | 53 | 65 | 98 | 128 | 140 | 59 | 52 | 1 | 0 |
| 17021 | OXFORD CTY RD 6 (HESSTON FARM) | | | | | | | | | | | | |
| | EMBRO | 105 | 28 | 47 | 63 | 84 | 131 | 182 | 258 | 74 | 63 | 16 | 1 |
| 17022 | 182 WATER ST | | | | | | | | | | | | |
| | WINGHAM | 20 | 25 | 33 | 44 | 64 | 87 | 131 | 140 | 53 | 46 | 1 | INS |
| 17206 | ST ANTHONY'S SS, HWY2 | | | | | | | | | | | | |
| | BEACHVILLE | 37 | 39 | 62 | 94 | 129 | 188 | 215 | 221 | 103 | 89 | 15 | INS |
| 17306 | ST ANTHONY'S SS, HWY2 | | | | | | | | | | | | |
| | BEACHVILLE | 36 | 34 | 54 | 58 | 76 | 118 | 206 | 233 | 72 | 63 | 4 | INS |
| 18014 | 369 LEOPOLD ST | | | | | | | | | | | | |
| | WINGHAM | 18 | 13 | 18 | 26 | 43 | 59 | 100 | 107 | 34 | 27 | 0 | INS |
| 18015 | TROWBRIDGE | | | | | | | | | | | | |
| | MEAFORD | 36 | 23 | 28 | 36 | 53 | 73 | 133 | 146 | 46 | 39 | 1 | INS |
| 22087 | JARVIS COMMUNITY CENTRE,JAMES ST | | | | | | | | | | | | |
| | JARVIS | 52 | 24 | 39 | 42 | 55 | 76 | 132 | 155 | 49 | 44 | 1 | 0 |
| 22090 | ST GEORGE/ALMA | | | | | | | | | | | | |
| | PORT DOVER | 49 | 18 | 26 | 30 | 41 | 58 | 76 | 76 | 35 | 31 | 0 | 0 |
| 22092 | RAINHAM RD/SANDUSK RD | | | | | | | | | | | | |
| | JARVIS | 54 | 32 | 54 | 72 | 105 | 134 | 193 | 206 | 82 | 71 | 11 | 1 |
| 22904 | WALPOLE S PS, SANDUSK RD | | | | | | | | | | | | |
| | NANTICOKE | 55 | 18 | 27 | 32 | 41 | 57 | 81 | 89 | 36 | 33 | 0 | 0 |

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

50

| YEAR - 1986 | | POLLUTANT - SUSPENDED PARTICULATE | | | UNIT - MICROGRAMS/CU.METRE | | | | | | | | NO OF TIMES ABOVE CRITERIA | |
|----------------|-------------------------------|-----------------------------------|----|----|----------------------------|-----|-----|-----|-----|------------|-----------|-------|----------------------------|--|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | 24-HR | 1-YR | |
| | | | | | 50 | 70 | 90 | 99 | MAX | | | | | |
| 22907 | RAINHAM RD (NEAR STELCO GATE) | | | | | | | | | | | | | |
| | NANTICOKE | 59 | 38 | 52 | 65 | 75 | 100 | 155 | 161 | 67 | 62 | 3 | 1 | |
| 22961 | NANTICOKE RD/WALPOLE CON 2 | | | | | | | | | | | | | |
| | NANTICOKE | 57 | 21 | 35 | 43 | 51 | 76 | 106 | 119 | 47 | 42 | 0 | 0 | |
| 22964 | N 2 KM NANTICOKE GS | | | | | | | | | | | | | |
| | NANTICOKE | 55 | 18 | 31 | 37 | 44 | 71 | 104 | 124 | 41 | 36 | 1 | 0 | |
| 22965 | HWY 6/NORFOLK CON 2 | | | | | | | | | | | | | |
| | JARVIS | 52 | 21 | 29 | 34 | 50 | 66 | 92 | 104 | 40 | 36 | 0 | 0 | |
| 26029 | EDNA/FREDERICK STS | | | | | | | | | | | | | |
| | KITCHENER | 58 | 34 | 45 | 61 | 71 | 91 | 137 | 154 | 61 | 56 | 2 | 0 | |
| 27037 | NORTH/GENEVA ST | | | | | | | | | | | | | |
| | ST CATHARINES | 44 | 36 | 49 | 56 | 70 | 112 | 186 | 227 | 67 | 60 | 4 | 0 | |
| 27045 | 337 ALBERTA/DEVON ST | | | | | | | | | | | | | |
| | WELLAND | 54 | 26 | 32 | 40 | 53 | 68 | 105 | 117 | 46 | 42 | 0 | 0 | |
| 27047 | DAVIS/FRAZER | | | | | | | | | | | | | |
| | PORT COLBORNE | 62 | 30 | 41 | 48 | 67 | 99 | 142 | 150 | 57 | 52 | 2 | 0 | |
| 27050 | 4057 VICTORIA AV | | | | | | | | | | | | | |
| | NIAGARA FALLS | 52 | 60 | 83 | 94 | 113 | 137 | 198 | 205 | 99 | 94 | 9 | 1 | |
| 27051 | HOLY T CHURCH, NORTON/PORTAGE | | | | | | | | | | | | | |
| | CHIPPAWA | 60 | 38 | 52 | 60 | 78 | 99 | 186 | 214 | 68 | 62 | 3 | 1 | |
| 27052 | 185 QUEEN ST S | | | | | | | | | | | | | |
| | THOROLD | 58 | 71 | 99 | 147 | 188 | 276 | 570 | 731 | 168 | 144 | 34 | 1 | |
| 27055 | STP GROUNDS, STANLEY AV | | | | | | | | | | | | | |
| | NIAGARA FALLS | 59 | 42 | 63 | 83 | 109 | 168 | 212 | 229 | 91 | 81 | 11 | 1 | |
| 27056 | ALLENDALE AV | | | | | | | | | | | | | |
| | NIAGARA FALLS | 57 | 28 | 33 | 40 | 49 | 72 | 108 | 111 | 46 | 42 | 0 | 0 | |
| 27059 | 188 EASTCHESTER AV | | | | | | | | | | | | | |
| | ST CATHARINES | 39 | 44 | 50 | 63 | 78 | 102 | 126 | 129 | 68 | 64 | 3 | INS | |
| 27060 | PETRIE ST/DUNKIRK RD | | | | | | | | | | | | | |
| | ST CATHARINES | 47 | 48 | 76 | 89 | 113 | 143 | 224 | 224 | 99 | 90 | 12 | 1 | |
| 28027 | HANLON EXPWY/SPEED RIVER | | | | | | | | | | | | | |
| | GUELPH | 58 | 28 | 36 | 52 | 65 | 112 | 229 | 230 | 64 | 53 | 5 | 0 | |
| 28028 | EXHIBITION ST/CLARK ST | | | | | | | | | | | | | |
| | GUELPH | 57 | 22 | 28 | 35 | 43 | 62 | 85 | 86 | 39 | 35 | 0 | 0 | |
| 29001 | HUGHSON/HUNTER | | | | | | | | | | | | | |
| | HAMILTON | 58 | 36 | 52 | 64 | 83 | 142 | 353 | 468 | 88 | 70 | 9 | 1 | |
| 29009 | KENILWORTH | | | | | | | | | | | | | |
| | HAMILTON | 60 | 36 | 48 | 54 | 77 | 104 | 177 | 193 | 69 | 61 | 5 | 1 | |
| 29011 | BURLINGTON/LEEDS | | | | | | | | | | | | | |
| | HAMILTON | 60 | 66 | 85 | 105 | 129 | 225 | 336 | 341 | 125 | 110 | 22 | 1 | |
| 29012 | BURLINGTON/WELLINGTON | | | | | | | | | | | | | |
| | HAMILTON | 59 | 36 | 56 | 64 | 81 | 131 | 191 | 212 | 75 | 66 | 7 | 1 | |
| 29017 | CHATHAM/FRID | | | | | | | | | | | | | |
| | HAMILTON | 57 | 48 | 64 | 80 | 93 | 135 | 182 | 201 | 86 | 79 | 10 | 1 | |
| 29025 | BARTON/WENTWORTH | | | | | | | | | | | | | |
| | HAMILTON | 342 | 42 | 60 | 74 | 96 | 136 | 247 | 337 | 85 | 76 | 55 | 1 | |
| 29067 | 450 HUGHSON ST N | | | | | | | | | | | | | |
| | HAMILTON | 57 | 28 | 40 | 50 | 58 | 84 | 128 | 137 | 54 | 50 | 2 | 0 | |
| 29077 | SPENCER VALLEY PS | | | | | | | | | | | | | |
| | GREENSVILLE | 40 | 22 | 36 | 63 | 82 | 145 | 221 | 249 | 73 | 56 | 6 | INS | |
| 29087 | 405 CUMBERLAND AV | | | | | | | | | | | | | |
| | HAMILTON | 58 | 29 | 41 | 50 | 66 | 93 | 232 | 243 | 61 | 52 | 3 | 0 | |

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - SUSPENDED PARTICULATE | | | UNIT - MICROGRAMS/CU.METRE | | | | | | | NO OF TIMES ABOVE CRITERIA | |
|-------------------|--|-----------------------------------|----|----|----------------------------|-----|-----|-----|-----|---------------|--------------|-------------------------------|------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | 24-HR | 1-YR |
| 29089 | BARTON/NASH RD HAMILTON | 53 | 33 | 53 | 65 | 78 | 103 | 129 | 142 | 67 | 62 | 1 | 1 |
| 29098 | BAY/MAIN ST HAMILTON | 57 | 28 | 38 | 48 | 62 | 104 | 213 | 287 | 61 | 51 | 5 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 340 | 36 | 54 | 75 | 105 | 141 | 206 | 229 | 84 | 73 | 69 | 1 |
| 29111 | OFIELD RD/HWY 5 GREENSVILLE | 60 | 42 | 56 | 76 | 130 | 274 | 475 | 704 | 124 | 88 | 19 | 1 |
| 29113 | GERTRUDE/DEPEW HAMILTON | 42 | 44 | 65 | 83 | 108 | 168 | 296 | 321 | 101 | 87 | 9 | 1 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 54 | 28 | 34 | 45 | 57 | 89 | 131 | 139 | 52 | 45 | 2 | 0 |
| 29118 | MAIN ST W/HWY 403 HAMILTON | 57 | 25 | 35 | 48 | 58 | 94 | 184 | 193 | 55 | 47 | 3 | 0 |
| 29119 | MORLEY ST/PARKDALE AV HAMILTON | 49 | 57 | 76 | 95 | 126 | 170 | 198 | 206 | 105 | 96 | 16 | 1 |
| 31058 | MOSLEY/LESLIE STS TORONTO | 340 | 33 | 47 | 60 | 77 | 113 | 183 | 213 | 68 | 60 | 29 | 0 |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 25 | 37 | 47 | 65 | 104 | 172 | 177 | 58 | 51 | 6 | 0 |
| 31082 | WORKS DEPT, 138 HAMILTON AV TORONTO | 263 | 35 | 48 | 60 | 78 | 105 | 158 | 211 | 67 | 61 | 16 | 1 |
| 31084 | MAYDWELL MFG, 65 SAULTER ST TORONTO | 180 | 35 | 50 | 65 | 77 | 110 | 204 | 229 | 71 | 63 | 16 | 1 |
| 31085 | TECUMSETH/NIAGARA ST TORONTO | 342 | 35 | 49 | 60 | 74 | 105 | 169 | 214 | 66 | 60 | 20 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 334 | 30 | 40 | 52 | 65 | 88 | 122 | 138 | 56 | 51 | 5 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 108 | 28 | 38 | 45 | 55 | 75 | 101 | 103 | 48 | 43 | 0 | 0 |
| 31126 | 969 EASTERN AV TORONTO | 234 | 28 | 39 | 50 | 64 | 100 | 162 | 185 | 58 | 51 | 11 | 0 |
| 31181 | 60 BATHURST ST TORONTO | 301 | 32 | 45 | 57 | 70 | 100 | 153 | 167 | 61 | 56 | 10 | 0 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 210 | 34 | 46 | 58 | 72 | 111 | 190 | 431 | 66 | 59 | 13 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 112 | 32 | 46 | 54 | 66 | 93 | 121 | 147 | 59 | 55 | 3 | 0 |
| 33019 | REDLAND CR (SCARB BLUFFS) SCARBORO | 106 | 20 | 34 | 41 | 57 | 83 | 140 | 163 | 49 | 42 | 2 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 116 | 23 | 31 | 39 | 50 | 72 | 109 | 137 | 44 | 40 | 1 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 111 | 30 | 45 | 63 | 82 | 140 | 319 | 472 | 80 | 63 | 14 | 1 |
| 35005 | QUEENSWAY HOSPITAL ETOBICOKE | 113 | 32 | 44 | 53 | 64 | 94 | 121 | 121 | 57 | 52 | 2 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 110 | 38 | 50 | 62 | 77 | 99 | 136 | 139 | 66 | 61 | 4 | 1 |
| 35037 | 3050 LAKESHORE BLVD W ETOBICOKE | 252 | 34 | 48 | 58 | 73 | 99 | 144 | 185 | 63 | 57 | 10 | 0 |
| 35051 | RESOURCES RD (MOL LAB) ETOBICOKE | 312 | 28 | 41 | 51 | 65 | 95 | 137 | 206 | 56 | 50 | 9 | 0 |

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

52

JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - SUSPENDED PARTICULATE | | | UNIT - MICROGRAMS/CU.METRE | | | | | | | NO OF TIMES ABOVE CRITERIA | |
|----------------|---|-----------------------------------|----|----|----------------------------|----|-----|-----|-----|------------|-----------|----------------------------|------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | 24-HR | 1-YR |
| | | | | | 50 | 70 | 90 | 99 | MAX | | | | |
| 44005 | 2487 LAKESHORE E/BIRKBANK RDS OAKVILLE | 106 | 18 | 27 | 38 | 48 | 73 | 103 | 128 | 42 | 36 | 1 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 23 | 38 | 47 | 61 | 80 | 115 | 128 | 51 | 45 | 1 | 0 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 20 | 36 | 45 | 56 | 81 | 109 | 130 | 48 | 43 | 1 | 0 |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 260 | 22 | 37 | 48 | 64 | 95 | 161 | 261 | 55 | 47 | 12 | 0 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 116 | 23 | 37 | 44 | 55 | 74 | 98 | 143 | 48 | 43 | 1 | 0 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 117 | 30 | 44 | 51 | 60 | 88 | 124 | 163 | 56 | 51 | 2 | 0 |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 32 | 35 | 47 | 51 | 64 | 84 | 120 | 122 | 58 | 53 | 1 | INS |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 52 | 26 | 48 | 61 | 76 | 123 | 163 | 182 | 67 | 59 | 6 | 0 |
| 46041 | 2414 DIXIE RD MISSISSAUGA | 327 | 38 | 54 | 69 | 88 | 121 | 174 | 195 | 75 | 68 | 33 | 1 |
| 46045 | 2365 DIXIE RD MISSISSAUGA | 331 | 34 | 52 | 66 | 85 | 123 | 165 | 176 | 73 | 66 | 36 | 1 |
| 46046 | 2360 DIXIE RD MISSISSAUGA | 304 | 35 | 52 | 65 | 80 | 104 | 151 | 172 | 68 | 62 | 19 | 1 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 118 | 27 | 46 | 54 | 64 | 87 | 130 | 164 | 56 | 51 | 2 | 0 |
| 47019 | POST OFFICE, 17-25 PETER ST S ORILLIA | 57 | 22 | 33 | 39 | 48 | 72 | 118 | 125 | 45 | 40 | 1 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 89 | 19 | 28 | 35 | 47 | 65 | 95 | 123 | 39 | 35 | 1 | 0 |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 113 | 19 | 28 | 38 | 46 | 66 | 99 | 126 | 39 | 35 | 1 | 0 |
| 58027 | 51 SHUTER ST PORT HOPE | 88 | 16 | 22 | 30 | 42 | 58 | 95 | 96 | 35 | 31 | 0 | 0 |
| 58041 | FILT PLT, MARSH ST PORT HOPE | 89 | 16 | 23 | 33 | 46 | 81 | 129 | 225 | 43 | 35 | 1 | 0 |
| 58042 | CAN TIRE, QUEEN ST PORT HOPE | 90 | 18 | 26 | 32 | 40 | 53 | 76 | 84 | 35 | 32 | 0 | 0 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 57 | 18 | 26 | 40 | 46 | 77 | 153 | 161 | 45 | 36 | 4 | 0 |
| 62013 | WEATHER STN ATIKOKAN | 53 | 11 | 18 | 22 | 28 | 39 | 46 | 49 | 24 | 22 | 0 | 0 |
| 62032 | CEMETERY, COLONIZATION RD W FORT FRANCES | 53 | 15 | 20 | 26 | 41 | 62 | 104 | 110 | 35 | 29 | 0 | 0 |
| 62035 | LEGION BLDG, 250 CHURCH ST FORT FRANCES | 50 | 29 | 40 | 67 | 91 | 147 | 186 | 200 | 75 | 62 | 9 | 1 |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 55 | 20 | 31 | 41 | 50 | 79 | 109 | 122 | 45 | 40 | 1 | 0 |
| 63012 | DAWSON CT/ALGOMA ST N THUNDER BAY | 55 | 16 | 23 | 30 | 43 | 60 | 97 | 104 | 36 | 31 | 0 | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 53 | 18 | 26 | 33 | 41 | 66 | 86 | 105 | 37 | 33 | 0 | 0 |
| 63040 | 435 JAMES ST S THUNDER BAY | 49 | 18 | 23 | 34 | 39 | 57 | 75 | 78 | 34 | 30 | 0 | 0 |

TABLE A-23 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE | |
|--|--|------------------|----|----|-------------|-----|-----|-----|-------|---------------|--------------|-------------------------------|---|
| YEAR - 1986 | | | | | | | | | | | | JUL 13, 1987 | |
| POLLUTANT - SUSPENDED PARTICULATE | | | | | | | | | | | | UNIT - MICROGRAMS/CU.METRE | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | | | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | NO OF TIMES ABOVE CRITERIA | |
| | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | 24-HR | | | 1-YR | |
| 63046 | CAN-CAR, MONTREAL ST THUNDER BAY | 55 | 21 | 35 | 44 | 57 | 84 | 114 | 131 | 50 | 44 | 1 | 0 |
| 63052 | TRNSIT MAINT BD, WILLIAM RD THUNDER BAY | 57 | 25 | 34 | 46 | 60 | 84 | 166 | 202 | 53 | 45 | 3 | 0 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 53 | 30 | 45 | 77 | 114 | 171 | 317 | 344 | 95 | 74 | 15 | 1 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 52 | 18 | 28 | 33 | 42 | 71 | 107 | 128 | 39 | 34 | 1 | 0 |
| 71065 | HOSPITAL, LAKESHORE AV BLIND RIVER | 53 | 9 | 16 | 21 | 28 | 37 | 54 | 57 | 23 | 20 | 0 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 78 | 27 | 38 | 53 | 65 | 119 | 180 | 207 | 61 | 52 | 7 | 0 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 53 | 15 | 25 | 30 | 38 | 72 | 128 | 149 | 38 | 31 | 1 | 0 |
| 75010 | OPP STN NORTH BAY | 46 | 18 | 23 | 27 | 35 | 48 | 85 | 94 | 32 | 29 | 0 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 55 | 17 | 25 | 32 | 35 | 46 | 62 | 72 | 31 | 29 | 0 | 0 |
| 77026 | 19 LISGAR ST SUDBURY | 51 | 17 | 26 | 29 | 34 | 75 | 91 | 98 | 36 | 32 | 0 | 0 |
| 77029 | POST OFFICE, SPRUCE/BARBER ST ESPANOLA | 56 | 21 | 27 | 34 | 50 | 76 | 123 | 124 | 43 | 37 | 2 | 0 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 60 | 18 | 24 | 28 | 38 | 66 | 84 | 84 | 35 | 31 | 0 | 0 |

| City | Annual Geometric Mean (ug/m3) | | | | | | | | | |
|---------------|-------------------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| ATIKOKAN | 30 | 28 | 36 | 39 | 26 | 20 | 21 | 23 | 23 | 22 |
| BELLEVILLE | 59 | 61 | 57 | 53 | 42 | 39 | 53 | 47 | 23 | - |
| BRAMALEA | 55 | 57 | 67 | 60 | 53 | 61 | 65 | 66 | 62 | 59 |
| CHATHAM | 64 | 77 | 70 | 75 | 65 | 48 | 45 | 41 | 43 | 45 |
| CORNWALL | 48 | 44 | 58 | 52 | 47 | 40 | 48 | 46 | - | - |
| ETOBICOKE | 65 | 71 | 84 | 83 | 91 | 74 | 53 | 59 | 58 | 61 |
| FORT FRANCES | 32 | 31 | 39 | 40 | 39 | 32 | 33 | 32 | 26 | 29 |
| HAMILTON | 96 | 102 | 100 | 88 | 72 | 81 | 75 | 81 | 71 | 76 |
| KITCHENER | 54 | 68 | 80 | 64 | 64 | 54 | 51 | 58 | 46 | 56 |
| LONDON | 58 | 72 | 76 | 83 | 58 | 51 | 52 | 55 | 42 | 50 |
| MISSISSAUGA | 66 | 58 | 70 | 70 | 73 | 62 | 60 | 68 | 55 | 53 |
| NORTH BAY | - | - | 34 | 46 | 37 | 34 | 33 | 37 | 25 | 29 |
| NORTH YORK | 41 | 42 | 52 | 48 | 44 | 43 | 38 | 39 | 40 | 40 |
| OAKVILLE | 38 | 43 | 47 | 62 | 50 | 45 | 40 | 47 | 43 | 43 |
| ORILLIA | 64 | 38 | 50 | 50 | 44 | 59 | 42 | 43 | 42 | 40 |
| OSHAWA | 57 | 47 | 62 | 58 | 54 | 47 | 42 | 44 | 41 | 43 |
| PETERBOROUGH | 41 | 42 | 59 | 52 | 39 | 42 | 46 | 42 | 39 | 36 |
| PICKERING | 49 | 70 | 64 | 49 | 50 | 48 | 41 | 47 | 49 | 47 |
| S.S.MARIE | 38 | 38 | 53 | 62 | 45 | 40 | 35 | 37 | 36 | 34 |
| SARNIA | 76 | 80 | 66 | 76 | 62 | 58 | 59 | 45 | 46 | 45 |
| SCARBORO | 59 | 59 | 70 | 70 | 59 | 57 | 51 | 60 | 53 | 55 |
| ST CATHARINES | 57 | 56 | 67 | 62 | 57 | 56 | 68 | 58 | 50 | 60 |
| SUDBURY | 35 | 32 | 37 | 42 | 40 | 34 | 28 | 28 | 26 | 29 |
| THUNDER BAY | 47 | 44 | 51 | 51 | 52 | 39 | 35 | 44 | 36 | 40 |
| TORONTO | 67 | 67 | 72 | 67 | 58 | 55 | 54 | 54 | 50 | 51 |
| WINDSOR | 82 | 79 | 80 | 77 | 69 | 62 | 53 | 50 | 50 | 61 |

TABLE A-25 LEAD (Pb) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - LEAD | | UNIT - .1 MICROGRAMS/CU.METRE | | | | | | | | TIMES ABOVE CRITERIA 24-HR |
|-------------------|---|------------------|----|-------------------------------|-------------|---|---|----|-----|---------------|--------------|----------------------------------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | 99 | MAX | ARITH MEAN | GEOM MEAN | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 40 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 1 | 1 | 0 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 1 | 1 | 1 | 1 | 2 | 4 | 5 | 1 | 1 | 0 |
| 12007 | WRIGHT/WATER ST WINDSOR | 34 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 0 | 0 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 1 | 1 | 2 | 2 | 3 | 6 | 18 | 2 | 2 | 0 |
| 12009 | 9725 RIVERSIDE DR E LITTLE RIVER | 56 | 1 | 1 | 1 | 1 | 2 | 4 | 6 | 1 | 0 | 0 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 1 | 1 | 1 | 2 | 3 | 5 | 6 | 1 | 1 | 0 |
| 12013 | FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR | 60 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 2 | 1 | 0 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 0 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 1 | 1 | 2 | 2 | 4 | 7 | 7 | 2 | 2 | 0 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 1 | 1 | 2 | 3 | 5 | 10 | 10 | 3 | 2 | 0 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 0 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 1 | 1 | 1 | 2 | 3 | 6 | 7 | 2 | 1 | 0 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 1 | 1 | 2 | 2 | 4 | 7 | 7 | 2 | 2 | 0 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 1 | 1 | 0 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 14064 | CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA | 57 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 2 | 1 | 0 |
| 15003 | 362 DUNDAS ST LONDON | 55 | 1 | 1 | 1 | 1 | 3 | 5 | 6 | 1 | 0 | 0 |
| 15008 | EDGEWARE RD (NNW VARTA PLT) ST THOMAS | 53 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 1 | 0 | 0 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 1 | 1 | 1 | 2 | 3 | 8 | 8 | 2 | 1 | 0 |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 1 | 1 | 1 | 1 | 3 | 4 | 4 | 1 | 1 | 0 |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 1 | 0 |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 1 | 1 | 0 |

TABLE A-25 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

56

| YEAR - 1986 | | POLLUTANT - LEAD | | UNIT - .1 MICROGRAMS/CU.METRE | | | | | | | | | TIMES ABOVE CRITERIA 24-HR | |
|-------------------|--|------------------|---|-------------------------------|----|-------------|----|----|-----|----|-----|---------------|----------------------------------|---|
| STATION NUMBER | LOCATION | NO OF SAMPLES | | 10 | 30 | PERCENTILES | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | |
| 22907 | RAINHAM RD (NEAR STELCO GATE) NANTICOKE | 58 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 1 | 2 | 3 | 6 | 9 | 18 | 18 | 5 | 3 | 0 | | 0 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 1 | 1 | 1 | 2 | 2 | 4 | 4 | 2 | 1 | 0 | | 0 |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 1 | 1 | 1 | 2 | 2 | 9 | 17 | 2 | 1 | 0 | | 0 |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 1 | 1 | 1 | 2 | 3 | 4 | 4 | 2 | 1 | 0 | | 0 |
| 28028 | EXHIBITION ST/CLARK ST GUELPH | 54 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 0 | | 0 |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 1 | 1 | 2 | 3 | 5 | 9 | 11 | 3 | 2 | 0 | | 0 |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 1 | 2 | 2 | 3 | 4 | 6 | 7 | 2 | 2 | 0 | | 0 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 1 | 1 | 1 | 1 | 2 | 4 | 5 | 1 | 1 | 0 | | 0 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 1 | 1 | 2 | 2 | 3 | 6 | 7 | 2 | 2 | 0 | | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 81 | 1 | 2 | 3 | 4 | 5 | 8 | 10 | 3 | 3 | 0 | | 0 |
| 29067 | 450 HUGHSON ST N HAMILTON | 54 | 1 | 1 | 1 | 1 | 2 | 4 | 5 | 1 | 1 | 0 | | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 77 | 1 | 1 | 2 | 2 | 3 | 5 | 6 | 2 | 2 | 0 | | 0 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 1 | 1 | 1 | 1 | 2 | 4 | 6 | 1 | 1 | 0 | | 0 |
| 31058 | MOSLEY/LESLIE STS TORONTO | 340 | 1 | 3 | 6 | 11 | 25 | 60 | 127 | 11 | 6 | 9 | | 9 |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 1 | 1 | 2 | 4 | 9 | 12 | 13 | 3 | 2 | 0 | | 0 |
| 31082 | WORKS DEPT, 138 HAMILTON AV TORONTO | 248 | 2 | 3 | 4 | 5 | 8 | 17 | 26 | 5 | 4 | 0 | | 0 |
| 31084 | MAYDWELL MFG, 65 SAULTER ST TORONTO | 175 | 1 | 1 | 2 | 3 | 5 | 11 | 12 | 2 | 1 | 0 | | 0 |
| 31085 | TECUMSETH/NIAGARA ST TORONTO | 342 | 2 | 4 | 8 | 13 | 24 | 53 | 159 | 12 | 7 | 5 | | 5 |
| 31104 | 26 BREADALBANE TORONTO | 323 | 1 | 1 | 2 | 2 | 3 | 5 | 6 | 2 | 2 | 0 | | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 105 | 1 | 1 | 1 | 2 | 3 | 7 | 7 | 1 | 1 | 0 | | 0 |
| 31123 | 26 BREADALBANE TORONTO | 38 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 2 | 2 | 0 | | 0 |
| 31126 | 969 EASTERN AV TORONTO | 200 | 1 | 1 | 2 | 3 | 5 | 10 | 14 | 2 | 1 | 0 | | 0 |
| 31181 | 60 BATHURST ST TORONTO | 301 | 1 | 2 | 3 | 6 | 11 | 25 | 37 | 5 | 3 | 0 | | 0 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 1 | 1 | 2 | 2 | 3 | 5 | 6 | 2 | 2 | 0 | | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 1 | 2 | 2 | 3 | 4 | 6 | 8 | 2 | 2 | 0 | | 0 |

TABLE A-25 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - LEAD

UNIT - .1 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|---------------------------------|------------------|-------------|----|----|----|-----|-----|---------------|--------------|----------------------------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | | |
| 33019 | REDLAND CR (SCARB BLUFFS) | | | | | | | | | | |
| | SCARBORO | 102 | 1 | 1 | 1 | 1 | 2 | 5 | 5 | 1 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD | | | | | | | | | | |
| | NORTH YORK | 108 | 1 | 1 | 1 | 2 | 3 | 6 | 6 | 2 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) | | | | | | | | | | |
| | ETOBICOKE | 98 | 1 | 1 | 2 | 2 | 4 | 6 | 11 | 2 | 0 |
| 35033 | EVANS/ARNOLD AV | | | | | | | | | | |
| | ETOBICOKE | 100 | 1 | 2 | 3 | 4 | 5 | 10 | 10 | 3 | 0 |
| 35037 | 3050 LAKESHORE BLVD W | | | | | | | | | | |
| | ETOBICOKE | 228 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 2 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E | | | | | | | | | | |
| | BURLINGTON | 117 | 1 | 1 | 1 | 2 | 3 | 5 | 7 | 2 | 0 |
| 44015 | BRONTE RD/WOBURN CRES | | | | | | | | | | |
| | OAKVILLE | 119 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 1 | 0 |
| 45001 | FIRE HALL, BAYLY/BROCK | | | | | | | | | | |
| | PICKERING | 258 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 2 | 0 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE | | | | | | | | | | |
| | OSHAWA | 107 | 1 | 1 | 1 | 2 | 3 | 4 | 4 | 2 | 0 |
| 45025 | PS, RITSON RD/OLIVE AV | | | | | | | | | | |
| | OSHAWA | 115 | 1 | 1 | 1 | 2 | 3 | 6 | 7 | 1 | 0 |
| 46025 | PUB LIBRARY, 110 DUNDAS W | | | | | | | | | | |
| | MISSISSAUGA | 27 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 0 |
| 46033 | FIRE HALL, BRAMALEA RD | | | | | | | | | | |
| | BRAMALEA | 44 | 1 | 1 | 2 | 3 | 4 | 6 | 7 | 2 | 0 |
| 46041 | 2414 DIXIE RD | | | | | | | | | | |
| | MISSISSAUGA | 328 | 5 | 13 | 24 | 48 | 113 | 199 | 270 | 43 | 93 |
| 46045 | 2365 DIXIE RD | | | | | | | | | | |
| | MISSISSAUGA | 332 | 2 | 4 | 7 | 13 | 31 | 86 | 104 | 13 | 17 |
| 46046 | 2360 DIXIE RD | | | | | | | | | | |
| | MISSISSAUGA | 304 | 4 | 9 | 17 | 37 | 76 | 155 | 244 | 32 | 64 |
| 46110 | QUEENSWAY W/HURONTARIO ST | | | | | | | | | | |
| | MISSISSAUGA | 117 | 1 | 1 | 1 | 2 | 4 | 6 | 8 | 2 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST | | | | | | | | | | |
| | BARRIE | 86 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 1 | 0 |
| 59006 | CITY HALL, 500 GEORGE ST | | | | | | | | | | |
| | PETERBORO | 43 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 1 | 0 |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS | | | | | | | | | | |
| | THUNDER BAY | 56 | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 2 | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N | | | | | | | | | | |
| | THUNDER BAY | 52 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 0 |
| 63040 | 435 JAMES ST S | | | | | | | | | | |
| | THUNDER BAY | 49 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 71042 | PUMPHOUSE, BONNEY ST | | | | | | | | | | |
| | SAULT STE MARIE | 52 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 0 |
| 71049 | LAND OFFICE, QUEEN ST | | | | | | | | | | |
| | SAULT STE MARIE | 48 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 0 |
| 71066 | FARWELL PUMPHOUSE | | | | | | | | | | |
| | SAULT STE MARIE | 73 | 1 | 1 | 1 | 2 | 3 | 4 | 4 | 2 | 0 |

TABLE A-25 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - LEAD

UNIT - .1 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|--------------------------------------|------------------|-------------|----|----|----|----|----|-----|---------------|--------------|----------------------------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | | |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 1 | 1 | 1 | 1 | 2 | 3 | 5 | 1 | 1 | 0 |
| 75010 | OPP STN NORTH BAY | 45 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 1 | 1 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 0 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 1 | 1 | 0 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 1 | 1 | 1 | 1 | 2 | 6 | 8 | 1 | 1 | 0 |

TABLE A-26 10-YEAR TREND FOR Pb

| City | Annual Geometric mean (ug/m3) | | | | | | | | | |
|-------------|-------------------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| CHATHAM | .4 | .4 | .3 | .3 | .2 | .2 | .2 | .2 | .1 | .1 |
| CORNWALL | .4 | .2 | .2 | .1 | .2 | .2 | .2 | .1 | - | - |
| ETOBICOKE | .5 | .5 | .2 | .1 | .2 | .3 | .3 | .2 | .2 | .2 |
| HAMILTON | .8 | .9 | .6 | .5 | .6 | .4 | .4 | .4 | .3 | .3 |
| LONDON | .5 | .6 | .5 | .4 | .3 | .3 | .3 | .3 | .2 | .1 |
| MISSISSAUGA | .5 | .5 | .4 | .3 | .4 | .3 | .3 | .3 | .2 | .2 |
| NORTH BAY | - | - | .2 | .2 | .2 | .2 | .2 | .1 | .1 | .1 |
| PETERBORO | .4 | .4 | .3 | .3 | .3 | .2 | .2 | .2 | .2 | .1 |
| SARNIA | .6 | .1 | .2 | .1 | .1 | .1 | .2 | .1 | .1 | .1 |
| SCARBORO | .2 | .4 | .4 | .3 | .3 | .3 | .3 | .4 | .3 | .2 |
| SUDBURY | .3 | .2 | .1 | .1 | .2 | .1 | .1 | .1 | .1 | .1 |
| THUNDER BAY | .4 | .2 | .2 | .1 | .2 | .2 | .2 | .2 | .1 | .1 |
| TORONTO | .7 | .6 | .4 | .3 | .4 | .2 | .3 | .3 | .2 | .2 |
| WINDSOR | .8 | .5 | .3 | .3 | .2 | .2 | .2 | .2 | .2 | .2 |

TABLE A-27 COPPER (Cu) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE JUL 13, 1987 | |
|--|--|---|----|----|--------------------------------|----|----|-----|-----|---------------|--------------|--------------------------|----------------------------------|
| YEAR - 1986 | | POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE | | | UNIT - .01 MICROGRAMS/CU.METRE | | | | | | | | TIMES ABOVE CRITERIA 24-HR |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | | |
| | | | | | 50 | 70 | 90 | 99 | MAX | | | | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 8 | 16 | 28 | 48 | 60 | 78 | 86 | 33 | 25 | 0 | |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 3 | 5 | 7 | 9 | 13 | 17 | 19 | 8 | 7 | 0 | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 3 | 6 | 9 | 16 | 33 | 62 | 79 | 14 | 10 | 0 | |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 4 | 6 | 7 | 9 | 35 | 88 | 99 | 14 | 9 | 0 | |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 60 | 6 | 11 | 15 | 21 | 32 | 94 | 100 | 20 | 15 | 0 | |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 6 | 11 | 14 | 19 | 35 | 63 | 69 | 18 | 14 | 0 | |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 7 | 21 | 28 | 32 | 40 | 49 | 50 | 26 | 22 | 0 | |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 5 | 11 | 17 | 22 | 35 | 83 | 83 | 21 | 15 | 0 | |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 8 | 13 | 24 | 33 | 46 | 92 | 110 | 27 | 20 | 0 | |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 6 | 9 | 13 | 20 | 34 | 48 | 49 | 16 | 13 | 0 | |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 6 | 9 | 11 | 15 | 48 | 67 | 68 | 18 | 13 | 0 | |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 5 | 12 | 17 | 29 | 43 | 63 | 82 | 21 | 16 | 0 | |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 3 | 7 | 9 | 12 | 16 | 25 | 26 | 10 | 8 | 0 | |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 2 | 5 | 6 | 8 | 11 | 14 | 16 | 7 | 6 | 0 | |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 57 | 3 | 6 | 15 | 29 | 41 | 62 | 64 | 20 | 13 | 0 | |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 6 | 11 | 13 | 18 | 22 | 36 | 38 | 15 | 13 | 0 | |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 5 | 14 | 20 | 30 | 44 | 127 | 304 | 27 | 18 | 0 | |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 1 | 2 | 4 | 5 | 7 | 47 | 121 | 7 | 3 | 0 | |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 1 | 1 | 2 | 4 | 6 | 8 | 8 | 2 | 1 | 0 | |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 1 | 1 | 2 | 4 | 8 | 45 | 47 | 6 | 2 | 0 | |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 1 | 3 | 4 | 6 | 9 | 27 | 32 | 6 | 4 | 0 | |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 3 | 6 | 14 | 22 | 34 | 86 | 97 | 18 | 11 | 0 | |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 6 | 9 | 13 | 14 | 23 | 39 | 52 | 14 | 12 | 0 | |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 10 | 17 | 21 | 26 | 30 | 35 | 36 | 21 | 19 | 0 | |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 5 | 7 | 12 | 15 | 18 | 20 | 21 | 11 | 9 | 0 | |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 2 | 4 | 6 | 10 | 27 | 50 | 57 | 11 | 7 | 0 | |

TABLE A-27 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE | | | | | UNIT - .01 MICROGRAMS/CU.METRE | | | | | TIMES ABOVE CRITERIA 24-HR |
|-------------------|--|---|----|----|-------------|----|--------------------------------|-----|-----|---------------|--------------|----------------------------------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | 99 | MAX | ARITH MEAN | GEOM MEAN | |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 5 | 10 | 13 | 17 | 25 | 36 | 38 | 15 | 12 | 0 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 6 | 10 | 11 | 16 | 24 | 35 | 40 | 14 | 11 | 0 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 9 | 12 | 14 | 17 | 25 | 44 | 64 | 16 | 15 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 81 | 7 | 12 | 15 | 21 | 27 | 40 | 42 | 17 | 15 | 0 |
| 29067 | 450 HUGHSON ST N HAMILTON | 54 | 5 | 6 | 7 | 10 | 15 | 19 | 20 | 9 | 8 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 77 | 5 | 11 | 16 | 20 | 26 | 47 | 55 | 17 | 14 | 0 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 3 | 4 | 6 | 9 | 14 | 19 | 22 | 7 | 6 | 0 |
| 31058 | MOSLEY/LESLIE STS TORONTO | 322 | 4 | 6 | 8 | 12 | 23 | 38 | 50 | 11 | 9 | 0 |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 6 | 9 | 15 | 19 | 28 | 55 | 58 | 17 | 14 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 323 | 4 | 8 | 11 | 16 | 25 | 40 | 157 | 14 | 11 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 10 | 17 | 24 | 32 | 53 | 90 | 95 | 28 | 23 | 0 |
| 31126 | 969 EASTERN AV TORONTO | 90 | 5 | 8 | 9 | 11 | 16 | 20 | 22 | 10 | 9 | 0 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 5 | 9 | 13 | 18 | 27 | 41 | 135 | 15 | 12 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 5 | 9 | 11 | 15 | 23 | 36 | 52 | 13 | 11 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 108 | 11 | 14 | 17 | 20 | 25 | 43 | 58 | 18 | 17 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 98 | 2 | 8 | 14 | 29 | 45 | 67 | 181 | 22 | 13 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 5 | 6 | 8 | 10 | 13 | 24 | 27 | 9 | 8 | 0 |
| 35037 | 3050 LAKESHORE BLVD W ETOBICOKE | 228 | 9 | 14 | 21 | 40 | 107 | 251 | 415 | 42 | 25 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 2 | 4 | 6 | 8 | 11 | 18 | 20 | 7 | 5 | 0 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 5 | 10 | 14 | 17 | 22 | 31 | 44 | 14 | 11 | 0 |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 6 | 10 | 14 | 18 | 27 | 47 | 57 | 16 | 13 | 0 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 107 | 6 | 10 | 16 | 23 | 29 | 40 | 47 | 17 | 14 | 0 |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 3 | 6 | 8 | 10 | 16 | 20 | 20 | 9 | 8 | 0 |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 9 | 17 | 22 | 33 | 49 | 53 | 53 | 25 | 21 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 3 | 5 | 7 | 9 | 16 | 23 | 39 | 8 | 7 | 0 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 1 | 3 | 5 | 12 | 17 | 28 | 31 | 8 | 5 | 0 |

TABLE A-27 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE | | |
|--|---|------------------|----|----|-------------|----|-----|-----|-----|----|-----|--------------------------------|--------------|----------------------------------|
| YEAR - 1986 | | | | | | | | | | | | JUL 13, 1987 | | |
| POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE | | | | | | | | | | | | UNIT - .01 MICROGRAMS/CU.METRE | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 2 | 4 | 6 | 9 | 35 | 50 | 52 | 12 | 7 | | 0 | |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 4 | 15 | 19 | 22 | 26 | 63 | 102 | 19 | 15 | | 0 | |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 1 | 2 | 4 | 6 | 14 | 24 | 28 | 6 | 3 | | 0 | |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 6 | 10 | 13 | 24 | 35 | 70 | 83 | 19 | 14 | | 0 | |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 6 | 8 | 12 | 16 | 22 | 23 | 12 | 10 | | 0 | | |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 3 | 5 | 6 | 7 | 10 | 12 | 12 | 6 | 5 | | 0 | |
| 75010 | OPP STN NORTH BAY | 45 | 8 | 10 | 12 | 15 | 22 | 31 | 33 | 14 | 13 | | 0 | |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 14 | 31 | 37 | 45 | 78 | 131 | 140 | 45 | 37 | | 0 | |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 8 | 17 | 26 | 37 | 75 | 94 | 96 | 32 | 24 | | 0 | |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 16 | 23 | 33 | 54 | 180 | 756 | 986 | 90 | 44 | | 0 | |

TABLE A-28 10-YEAR TREND FOR Cu

| City | Annual geometric mean (ug/m3) | | | | | | | | | |
|-------------|-------------------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| BELLEVILLE | - | .07 | .10 | .15 | .10 | .15 | .22 | .31 | .29 | - |
| BRAMALEA | .28 | .72 | .58 | .49 | .23 | .12 | .15 | .18 | .20 | .21 |
| CHATHAM | .07 | .06 | .05 | .04 | .10 | .23 | .18 | .10 | .11 | .13 |
| CORNWALL | - | .20 | .34 | .19 | .35 | .19 | .31 | .26 | - | - |
| ETOBICOKE | .23 | .22 | .08 | - | .23 | .08 | .12 | .10 | .16 | .08 |
| HAMILTON | - | .40 | .29 | .19 | .22 | .23 | .32 | .30 | .23 | .15 |
| LONDON | .22 | .47 | .26 | .18 | .30 | .13 | .33 | .21 | .16 | .13 |
| MISSISSAUGA | .13 | .44 | .20 | .33 | .37 | .23 | .14 | .10 | .08 | .08 |
| NORTH BAY | - | .03 | .38 | .43 | .40 | .38 | .22 | .20 | .15 | .13 |
| NORTH YORK | .15 | .19 | .11 | - | .11 | .20 | .16 | .20 | .22 | .17 |
| OSHAWA | .15 | .10 | .14 | .08 | .05 | .10 | .12 | .11 | .16 | .14 |
| PICKERING | .24 | .36 | .30 | - | .26 | .20 | .28 | .23 | .15 | .13 |
| S.S.MARIE | .43 | .48 | .65 | .55 | .20 | .13 | .26 | .14 | .16 | .14 |
| SCARBORO | - | .12 | .07 | - | .08 | .17 | .20 | .12 | .09 | .11 |
| SUDBURY | .52 | .18 | .33 | .48 | .24 | .24 | .39 | .30 | .37 | .37 |
| THUNDER BAY | .04 | .04 | .06 | .09 | .11 | .08 | .18 | .19 | .19 | .07 |
| TORONTO | .24 | .13 | .17 | - | .10 | .12 | .16 | .15 | .12 | .11 |
| WINDSOR | .14 | .17 | .07 | .04 | .02 | .05 | .05 | .05 | .09 | .25 |

TABLE A-29 IRON (Fe) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | |
|--|---|---|----|----|-------------|----|-------------------------------|-----|-----|---------------|--------------|
| YEAR - 1986 | | POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE | | | | | UNIT - .1 MICROGRAMS/CU.METRE | | | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | | | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN |
| | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 5 | 8 | 11 | 13 | 21 | 33 | 38 | 12 | 10 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 3 | 6 | 7 | 10 | 18 | 26 | 29 | 9 | 7 |
| 12007 | WRIGHT/WATER ST WINDSOR | 33 | 4 | 11 | 15 | 25 | 38 | 57 | 59 | 20 | 15 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 5 | 9 | 13 | 19 | 34 | 120 | 170 | 19 | 13 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 3 | 6 | 9 | 14 | 23 | 35 | 42 | 11 | 8 |
| 12013 | FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR | 60 | 9 | 15 | 22 | 31 | 80 | 154 | 155 | 35 | 24 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 7 | 14 | 18 | 24 | 37 | 64 | 64 | 21 | 17 |
| 12016 | COLLEGE/SOUTH ST WINDSOR | 76 | 1 | 2 | 6 | 16 | 34 | 58 | 104 | 13 | 5 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 6 | 15 | 25 | 47 | 79 | 242 | 345 | 42 | 24 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 8 | 10 | 14 | 21 | 28 | 78 | 87 | 18 | 15 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 6 | 9 | 10 | 14 | 18 | 34 | 54 | 12 | 10 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 6 | 9 | 13 | 19 | 31 | 41 | 44 | 16 | 14 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 6 | 9 | 19 | 25 | 45 | 60 | 65 | 21 | 14 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 2 | 4 | 5 | 6 | 10 | 16 | 20 | 6 | 5 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 1 | 2 | 3 | 5 | 8 | 15 | 20 | 4 | 3 |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 1 | 2 | 3 | 4 | 7 | 12 | 14 | 4 | 3 |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 1 | 2 | 3 | 4 | 6 | 11 | 11 | 3 | 2 |
| 14064 | CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA | 57 | 2 | 3 | 4 | 6 | 8 | 14 | 15 | 5 | 4 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 1 | 3 | 5 | 8 | 11 | 20 | 22 | 6 | 5 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 1 | 1 | 2 | 3 | 5 | 18 | 24 | 3 | 2 |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 1 | 3 | 4 | 6 | 8 | 22 | 25 | 5 | 4 |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 1 | 1 | 3 | 5 | 7 | 13 | 16 | 4 | 3 |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 1 | 1 | 3 | 4 | 6 | 11 | 14 | 3 | 2 |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 1 | 1 | 3 | 4 | 6 | 12 | 17 | 3 | 3 |
| 17022 | 182 WATER ST WINGHAM | 20 | 3 | 4 | 5 | 12 | 18 | 24 | 24 | 9 | 6 |
| 18014 | 369 LEOPOLD ST WINGHAM | 18 | 1 | 1 | 2 | 3 | 7 | 11 | 12 | 3 | 2 |

TABLE A-29 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE | | | UNIT - .1 MICROGRAMS/CU.METRE | | | | | | |
|-------------------|--|---|----|----|-------------------------------|----|-----|-----|-----|---------------|--------------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | | | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN |
| | | 10 | 30 | | 50 | 70 | 90 | 99 | MAX | | |
| 18015 | TROWBRIDGE MEAFORD | 36 | 3 | 3 | 6 | 9 | 19 | 54 | 65 | 10 | 6 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 2 | 4 | 5 | 8 | 12 | 19 | 24 | 7 | 5 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 3 | 6 | 9 | 12 | 15 | 21 | 21 | 9 | 8 |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 6 | 9 | 11 | 17 | 35 | 49 | 51 | 16 | 13 |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 5 | 10 | 15 | 18 | 26 | 34 | 36 | 15 | 12 |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 6 | 8 | 12 | 26 | 71 | 278 | 380 | 35 | 16 |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 20 | 30 | 44 | 70 | 164 | 237 | 249 | 66 | 48 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 5 | 9 | 13 | 21 | 42 | 83 | 108 | 20 | 13 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 9 | 17 | 21 | 34 | 82 | 124 | 128 | 33 | 23 |
| 29025 | BARTON/WENTWORTH HAMILTON | 81 | 9 | 14 | 22 | 45 | 99 | 184 | 268 | 42 | 26 |
| 29067 | 450 HUGHSON ST N HAMILTON | 54 | 4 | 6 | 10 | 18 | 32 | 78 | 116 | 16 | 11 |
| 29102 | 467 BEACH BLVD HAMILTON | 77 | 11 | 18 | 40 | 56 | 85 | 153 | 185 | 44 | 31 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 2 | 4 | 8 | 13 | 26 | 67 | 87 | 13 | 8 |
| 31058 | MOSLEY/LESLIE STS TORONTO | 322 | 3 | 7 | 10 | 14 | 27 | 46 | 65 | 13 | 9 |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 1 | 4 | 6 | 11 | 23 | 52 | 53 | 10 | 6 |
| 31104 | 26 BREADALBANE TORONTO | 323 | 3 | 5 | 7 | 10 | 16 | 24 | 28 | 8 | 6 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 1 | 4 | 5 | 8 | 13 | 18 | 20 | 7 | 5 |
| 31126 | 969 EASTERN AV TORONTO | 90 | 3 | 5 | 7 | 10 | 18 | 50 | 58 | 10 | 7 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 4 | 6 | 8 | 11 | 19 | 64 | 91 | 11 | 8 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 2 | 5 | 7 | 8 | 13 | 19 | 26 | 7 | 6 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 108 | 1 | 3 | 5 | 7 | 11 | 18 | 23 | 6 | 4 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 98 | 1 | 4 | 8 | 11 | 32 | 75 | 112 | 13 | 7 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 3 | 6 | 7 | 10 | 16 | 20 | 23 | 9 | 7 |
| 35037 | 3050 LAKESHORE BLVD W ETOBICOKE | 228 | 2 | 5 | 7 | 10 | 16 | 25 | 32 | 8 | 6 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 2 | 4 | 6 | 9 | 15 | 24 | 27 | 7 | 6 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 1 | 4 | 6 | 8 | 13 | 23 | 24 | 7 | 5 |

TABLE A-29 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE

UNIT - .1 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | MAX | ARITH MEAN | GEOM MEAN |
|-------------------|---|------------------|-------------|----|----|----|-----|-----|-----|---------------|--------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | | |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 2 | 4 | 6 | 9 | 14 | 20 | 25 | 7 | 5 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 107 | 2 | 4 | 6 | 9 | 17 | 36 | 46 | 8 | 6 |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 2 | 5 | 7 | 8 | 13 | 23 | 25 | 8 | 6 |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 2 | 4 | 6 | 10 | 15 | 36 | 39 | 9 | 6 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 1 | 1 | 3 | 4 | 7 | 13 | 13 | 4 | 3 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 1 | 1 | 3 | 4 | 8 | 20 | 21 | 4 | 3 |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 3 | 5 | 10 | 17 | 31 | 38 | 40 | 13 | 10 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 2 | 5 | 7 | 11 | 20 | 43 | 54 | 10 | 7 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 12 | 19 | 39 | 55 | 120 | 220 | 243 | 56 | 37 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 1 | 5 | 6 | 12 | 23 | 56 | 64 | 11 | 6 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 3 | 8 | 12 | 19 | 43 | 98 | 118 | 20 | 12 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 1 | 1 | 5 | 7 | 12 | 19 | 21 | 6 | 4 |
| 75010 | OPP STN NORTH BAY | 45 | 1 | 1 | 3 | 5 | 10 | 27 | 35 | 5 | 3 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 1 | 4 | 6 | 8 | 21 | 61 | 63 | 10 | 6 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 2 | 4 | 7 | 10 | 16 | 23 | 27 | 8 | 6 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 4 | 7 | 10 | 16 | 38 | 63 | 84 | 16 | 11 |

TABLE A-30 10-YEAR TREND FOR Fe

Annual geometric mean (ug/m3)

| City | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
|-------------|------|------|------|------|------|------|------|------|------|------|
| BELLEVILLE | - | 1.3 | .5 | .8 | .4 | .5 | .6 | .5 | .4 | - |
| BRAMALEA | .6 | 1.0 | 1.1 | .9 | .4 | .6 | 1.1 | .5 | .8 | .5 |
| CHATHAM | 1.1 | 1.4 | .9 | 1.1 | .8 | .6 | .7 | .5 | .6 | .5 |
| CORNWALL | - | .5 | .3 | .6 | .3 | .4 | .4 | .5 | - | - |
| ETOBICOKE | 1.1 | 1.3 | 1.5 | - | 1.1 | .7 | .7 | .8 | .8 | .7 |
| HAMILTON | - | 2.9 | 2.9 | 2.6 | 2.3 | 2.5 | 2.2 | 2.3 | 1.9 | 2.8 |
| LONDON | .9 | 1.3 | 1.4 | 1.0 | .7 | .5 | .6 | .6 | .5 | .4 |
| MISSISSAUGA | 1.1 | 1.0 | 1.2 | 1.2 | 1.2 | .8 | .9 | .9 | .8 | .5 |
| NORTH YORK | 2.0 | .8 | .3 | - | .4 | .4 | .4 | .5 | .5 | .4 |
| NORTH BAY | .7 | 1.2 | .2 | .6 | .4 | .5 | .2 | .3 | .3 | .1 |
| OSHAWA | 1.0 | .9 | .8 | 1.4 | .4 | .6 | .5 | .4 | .7 | .5 |
| PICKERING | .4 | 1.1 | 1.0 | - | .5 | .5 | .5 | .6 | .6 | .5 |
| S.S.MARIE | 1.9 | 1.1 | 1.5 | 1.9 | 1.2 | .5 | .5 | .7 | 1.2 | .5 |
| SCARBORO | - | .9 | .8 | - | .6 | .5 | .6 | .7 | .7 | .5 |
| SUDBURY | 1.2 | 1.2 | .6 | .9 | 1.0 | .7 | .7 | .5 | .6 | .5 |
| THUNDER BAY | 1.4 | 1.3 | 1.6 | 1.3 | 1.0 | 1.0 | .9 | 1.2 | .8 | 1.0 |
| TORONTO | 1.0 | 1.0 | .8 | .6 | .9 | .7 | .8 | .8 | .7 | .6 |
| WINDSOR | 2.7 | 2.5 | 1.7 | 1.2 | 1.4 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 |

TABLE A-31 MANGANESE (Mn) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE JUL 13, 1987 | | |
|--|--|--|----|----|-------------|-----|-----|-----|------|-----|-----|----------------------------------|--------------|---|
| YEAR - 1986 | | POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE | | | | | | | | | | TIMES ABOVE CRITERIA 24-HR | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | |
| | | | | | 50 | 70 | 90 | | | | | | | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 18 | 28 | 36 | 49 | 70 | 157 | 166 | 45 | 34 | | | 0 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 5 | 20 | 26 | 40 | 62 | 145 | 176 | 35 | 24 | | | 0 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 18 | 33 | 48 | 68 | 127 | 250 | 500 | 64 | 47 | | | 0 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 5 | 14 | 27 | 45 | 75 | 143 | 200 | 37 | 24 | | | 0 |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 60 | 24 | 42 | 79 | 130 | 380 | 940 | 1050 | 165 | 78 | | | 0 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 22 | 48 | 71 | 98 | 146 | 213 | 230 | 81 | 64 | | | 0 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 19 | 37 | 51 | 73 | 120 | 219 | 285 | 63 | 49 | | | 0 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 56 | 16 | 33 | 46 | 59 | 82 | 158 | 200 | 51 | 41 | | | 0 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 18 | 24 | 30 | 43 | 55 | 186 | 380 | 41 | 31 | | | 0 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 16 | 25 | 36 | 52 | 68 | 103 | 150 | 41 | 35 | | | 0 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 11 | 27 | 46 | 64 | 76 | 112 | 120 | 46 | 35 | | | 0 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 3 | 8 | 15 | 19 | 25 | 37 | 40 | 15 | 11 | | | 0 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 3 | 3 | 8 | 13 | 23 | 42 | 123 | 11 | 7 | | | 0 |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 3 | 3 | 8 | 12 | 23 | 38 | 54 | 10 | 7 | | | 0 |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 3 | 4 | 7 | 12 | 17 | 34 | 36 | 9 | 7 | | | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 57 | 3 | 11 | 15 | 24 | 46 | 117 | 180 | 23 | 14 | | | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 5 | 13 | 21 | 31 | 44 | 73 | 89 | 24 | 18 | | | 0 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 3 | 4 | 4 | 11 | 20 | 50 | 71 | 10 | 7 | | | 0 |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 5 | 7 | 14 | 19 | 34 | 79 | 100 | 19 | 14 | | | 0 |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 5 | 5 | 12 | 19 | 31 | 39 | 41 | 15 | 11 | | | 0 |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 5 | 5 | 11 | 18 | 25 | 42 | 46 | 14 | 11 | | | 0 |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 5 | 5 | 7 | 15 | 27 | 50 | 58 | 13 | 10 | | | 0 |
| 17022 | 182 WATER ST WINGHAM | 20 | 10 | 16 | 29 | 53 | 111 | 318 | 400 | 56 | 29 | | | 0 |
| 18014 | 369 LEOPOLD ST WINGHAM | 18 | 3 | 6 | 10 | 20 | 35 | 64 | 70 | 17 | 11 | | | 0 |
| 18015 | TROMBRIDGE MEAFORD | 36 | 9 | 10 | 20 | 30 | 40 | 95 | 104 | 25 | 19 | | | 0 |
| 26029 | ELONA/FREDERICK STS KITCHENER | 57 | 8 | 20 | 31 | 47 | 68 | 120 | 134 | 38 | 28 | | | 0 |

TABLE A-31 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | | PERCENTILES | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|---------------------------------|------------------|-----|-------------|-----|-----|-----|------|------|---------------|--------------|----------------------------------|
| | | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | |
| 27037 | NORTH/GENEVA ST | 44 | 19 | 32 | 41 | 53 | 70 | 121 | 131 | 45 | 39 | 0 |
| | ST CATHARINES | | | | | | | | | | | |
| 27059 | 188 EASTCHESTER AV | 38 | 27 | 50 | 65 | 85 | 137 | 220 | 250 | 76 | 62 | 0 |
| | ST CATHARINES | | | | | | | | | | | |
| 27060 | PETRIE ST/DUNKIRK RD | 45 | 27 | 57 | 85 | 100 | 136 | 176 | 189 | 82 | 68 | 0 |
| | ST CATHARINES | | | | | | | | | | | |
| 29001 | HUGHSON/HUNTER | 53 | 33 | 51 | 72 | 141 | 391 | 2068 | 2390 | 216 | 95 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29011 | BURLINGTON/LEEDS | 56 | 200 | 262 | 427 | 521 | 894 | 1191 | 1230 | 465 | 388 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29012 | BURLINGTON/WELLINGTON | 53 | 46 | 84 | 100 | 164 | 300 | 868 | 912 | 168 | 116 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29017 | CHATHAM/FRID | 51 | 41 | 78 | 100 | 143 | 272 | 711 | 1080 | 144 | 105 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29025 | BARTON/WENTWORTH | 81 | 60 | 88 | 145 | 270 | 769 | 1093 | 1190 | 275 | 175 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29067 | 450 HUGHSON ST N | 54 | 28 | 48 | 73 | 122 | 211 | 552 | 621 | 112 | 77 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29102 | 467 BEACH BLVD | 77 | 75 | 146 | 234 | 377 | 564 | 1139 | 1520 | 304 | 220 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 29114 | VICKERS RD/EAST 18TH ST | 51 | 15 | 27 | 43 | 100 | 206 | 404 | 436 | 84 | 52 | 0 |
| | HAMILTON | | | | | | | | | | | |
| 31058 | MOSLEY/LESLIE STS | 322 | 5 | 25 | 38 | 52 | 86 | 151 | 170 | 44 | 32 | 0 |
| | TORONTO | | | | | | | | | | | |
| 31064 | 17 BERKSHIRE AV | 80 | 5 | 12 | 22 | 37 | 70 | 111 | 144 | 32 | 20 | 0 |
| | TORONTO | | | | | | | | | | | |
| 31104 | 26 BREADALBANE | 323 | 5 | 18 | 26 | 38 | 61 | 93 | 101 | 31 | 24 | 0 |
| | TORONTO | | | | | | | | | | | |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) | 104 | 5 | 17 | 24 | 30 | 49 | 80 | 85 | 26 | 20 | 0 |
| | TORONTO | | | | | | | | | | | |
| 31126 | 969 EASTERN AV | 90 | 11 | 24 | 29 | 41 | 61 | 132 | 150 | 37 | 29 | 0 |
| | TORONTO | | | | | | | | | | | |
| 32008 | 30 INDUSTRIAL ST (NUODEX) | 192 | 14 | 30 | 42 | 57 | 84 | 198 | 212 | 49 | 38 | 0 |
| | EAST YORK | | | | | | | | | | | |
| 33003 | LAWRENCE/KENNEDY | 100 | 14 | 25 | 34 | 41 | 59 | 72 | 90 | 35 | 29 | 0 |
| | SCARBORO | | | | | | | | | | | |
| 34002 | SC CTR, 770 DON MILLS RD | 108 | 5 | 14 | 22 | 34 | 48 | 73 | 90 | 25 | 19 | 0 |
| | NORTH YORK | | | | | | | | | | | |
| 35003 | ELMCREST RD (CENTENNIAL PK) | 98 | 5 | 17 | 28 | 43 | 88 | 179 | 229 | 40 | 25 | 0 |
| | ETOBICOKE | | | | | | | | | | | |
| 35033 | EVANS/ARNOLD AV | 100 | 17 | 30 | 37 | 52 | 67 | 94 | 107 | 41 | 35 | 0 |
| | ETOBICOKE | | | | | | | | | | | |
| 35037 | 3050 LAKESHORE BLVD W | 228 | 5 | 20 | 28 | 37 | 63 | 93 | 121 | 32 | 24 | 0 |
| | ETOBICOKE | | | | | | | | | | | |
| 44008 | HWY2/NORTH SHORE BLVD E | 117 | 8 | 27 | 39 | 55 | 80 | 140 | 168 | 44 | 34 | 0 |
| | BURLINGTON | | | | | | | | | | | |
| 44015 | BRONTE RD/WOBURN CRES | 119 | 5 | 12 | 25 | 37 | 58 | 110 | 190 | 30 | 20 | 0 |
| | OAKVILLE | | | | | | | | | | | |
| 45001 | FIRE HALL, BAYLY/BROCK | 258 | 3 | 14 | 23 | 32 | 47 | 71 | 89 | 25 | 18 | 0 |
| | PICKERING | | | | | | | | | | | |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE | 107 | 5 | 17 | 26 | 44 | 96 | 233 | 289 | 42 | 25 | 0 |
| | OSHAWA | | | | | | | | | | | |

TABLE A-31 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|---|------------------|-------------|-----|-----|-----|------|------|------|---------------|--------------|----------------------------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | | |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 13 | 23 | 30 | 36 | 51 | 73 | 80 | 31 | 26 | 0 |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 6 | 18 | 29 | 36 | 65 | 135 | 190 | 35 | 26 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 5 | 5 | 11 | 19 | 30 | 69 | 84 | 15 | 11 | 0 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 5 | 5 | 5 | 16 | 34 | 91 | 93 | 16 | 10 | 0 |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 17 | 25 | 37 | 51 | 78 | 97 | 104 | 41 | 33 | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 12 | 24 | 33 | 41 | 66 | 105 | 118 | 37 | 30 | 0 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 69 | 143 | 261 | 521 | 1101 | 1671 | 1870 | 434 | 236 | 0 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 14 | 22 | 38 | 66 | 143 | 260 | 272 | 63 | 40 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 24 | 50 | 84 | 131 | 346 | 787 | 1140 | 147 | 83 | 0 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 5 | 5 | 11 | 19 | 32 | 43 | 45 | 15 | 11 | 0 |
| 75010 | OPP STN NORTH BAY | 45 | 5 | 5 | 5 | 12 | 29 | 52 | 66 | 12 | 8 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 5 | 5 | 5 | 11 | 16 | 29 | 36 | 9 | 7 | 0 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 5 | 5 | 5 | 13 | 20 | 47 | 47 | 12 | 9 | 0 |

TABLE A-32 NICKEL (Ni) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE | | | UNIT - .001 MICROGRAMS/CU.METRE | | | | | | | JUL 15, 1987 | |
|-------------------|--|---|----|----|---------------------------------|----|----|-----|-----|-----|---------------|--------------|----------------------------------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 1 | 1 | 1 | 7 | 11 | 40 | 150 | 7 | 2 | 0 | |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 1 | 1 | 1 | 4 | 7 | 17 | 23 | 3 | 2 | 0 | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 1 | 1 | 1 | 1 | 10 | 41 | 150 | 4 | 2 | 0 | |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 1 | 1 | 1 | 5 | 12 | 27 | 37 | 5 | 2 | 0 | |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 60 | 1 | 1 | 5 | 9 | 19 | 39 | 45 | 8 | 4 | 0 | |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 1 | 4 | 6 | 9 | 12 | 17 | 19 | 6 | 4 | 0 | |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 1 | 1 | 2 | 8 | 14 | 23 | 28 | 5 | 3 | 0 | |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 1 | 1 | 1 | 1 | 5 | 11 | 22 | 2 | 2 | 0 | |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 1 | 1 | 1 | 1 | 3 | 77 | 130 | 5 | 1 | 0 | |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 1 | 1 | 1 | 1 | 5 | 10 | 11 | 2 | 1 | 0 | |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 1 | 1 | 1 | 1 | 2 | 10 | 15 | 2 | 1 | 0 | |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 1 | 1 | 1 | 1 | 1 | 4 | 6 | 1 | 1 | 0 | |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 1 | 1 | 1 | 1 | 6 | 33 | 41 | 3 | 2 | 0 | |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 1 | 1 | 1 | 1 | 7 | 24 | 32 | 3 | 2 | 0 | |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 1 | 1 | 1 | 1 | 5 | 10 | 11 | 2 | 2 | 0 | |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 57 | 1 | 1 | 1 | 4 | 10 | 29 | 30 | 4 | 2 | 0 | |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 1 | 1 | 1 | 1 | 1 | 6 | 7 | 1 | 1 | 0 | |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 1 | 1 | 1 | 1 | 1 | 7 | 58 | 2 | 1 | 0 | |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 1 | 1 | 1 | 1 | 1 | 14 | 19 | 2 | 1 | 0 | |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 1 | 1 | 1 | 1 | 1 | 11 | 15 | 2 | 1 | 0 | |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 26029 | EDNA/FREDERICK STS KITCHENER | 58 | 1 | 1 | 1 | 3 | 6 | 15 | 17 | 3 | 2 | 0 | |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 1 | 1 | 1 | 3 | 6 | 30 | 70 | 4 | 2 | 0 | |
| 27047 | DAVIS/FRAZER PORT COLBORNE | 54 | 8 | 20 | 30 | 50 | 90 | 518 | 960 | 60 | 30 | 0 | |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 1 | 1 | 1 | 1 | 4 | 9 | 9 | 2 | 1 | 0 | |

TABLE A-32 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
 JUL 13, 1987

72

YEAR - 1986

POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE

UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|---------------------------------|------------------|----|----|-------------|----|-----|-----|------|---------------|--------------|----------------------------------|
| | | | | | 50 | 70 | 90 | 99 | MAX | | | |
| 27060 | PETRIE ST/DUNKIRK RD | | | | | | | | | | | |
| | ST CATHARINES | 45 | 1 | 1 | 1 | 1 | 5 | 15 | 22 | 2 | 1 | 0 |
| 29001 | HUGHSON/HUNTER | | | | | | | | | | | |
| | HAMILTON | 53 | 1 | 1 | 1 | 2 | 11 | 26 | 28 | 4 | 2 | 0 |
| 29011 | BURLINGTON/LEEDS | | | | | | | | | | | |
| | HAMILTON | 56 | 1 | 1 | 1 | 3 | 9 | 16 | 24 | 4 | 2 | 0 |
| 29012 | BURLINGTON/WELLINGTON | | | | | | | | | | | |
| | HAMILTON | 53 | 1 | 1 | 1 | 1 | 6 | 19 | 21 | 2 | 2 | 0 |
| 29017 | CHATHAM/FRID | | | | | | | | | | | |
| | HAMILTON | 51 | 1 | 1 | 2 | 5 | 10 | 18 | 22 | 4 | 3 | 0 |
| 29025 | BARTON/WENTWORTH | | | | | | | | | | | |
| | HAMILTON | 81 | 1 | 1 | 1 | 4 | 14 | 30 | 42 | 4 | 2 | 0 |
| 29067 | 450 HUGHSON ST N | | | | | | | | | | | |
| | HAMILTON | 54 | 1 | 3 | 5 | 7 | 9 | 16 | 20 | 5 | 4 | 0 |
| 29102 | 467 BEACH BLVD | | | | | | | | | | | |
| | HAMILTON | 77 | 1 | 1 | 1 | 1 | 6 | 23 | 25 | 3 | 2 | 0 |
| 29114 | VICKERS RD/EAST 18TH ST | | | | | | | | | | | |
| | HAMILTON | 51 | 1 | 1 | 5 | 9 | 24 | 141 | 154 | 13 | 5 | 0 |
| 31058 | MOSLEY/LESLIE STS | | | | | | | | | | | |
| | TORONTO | 322 | 2 | 2 | 2 | 2 | 2 | 8 | 13 | 2 | 2 | 0 |
| 31064 | 17 BERKSHIRE AV | | | | | | | | | | | |
| | TORONTO | 80 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | 2 | 2 | 0 |
| 31104 | 26 BREADALBANE | | | | | | | | | | | |
| | TORONTO | 323 | 2 | 2 | 2 | 2 | 2 | 7 | 24 | 2 | 2 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) | | | | | | | | | | | |
| | TORONTO | 104 | 2 | 2 | 2 | 2 | 5 | 12 | 24 | 3 | 2 | 0 |
| 31126 | 969 EASTERN AV | | | | | | | | | | | |
| | TORONTO | 90 | 2 | 2 | 2 | 2 | 5 | 19 | 33 | 3 | 3 | 0 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) | | | | | | | | | | | |
| | EAST YORK | 192 | 2 | 2 | 2 | 2 | 79 | 868 | 1620 | 51 | 5 | 0 |
| 33003 | LAWRENCE/KENNEDY | | | | | | | | | | | |
| | SCARBORO | 100 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 2 | 2 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD | | | | | | | | | | | |
| | NORTH YORK | 108 | 2 | 2 | 2 | 2 | 2 | 9 | 10 | 2 | 2 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) | | | | | | | | | | | |
| | ETOBICOKE | 98 | 2 | 2 | 2 | 2 | 4 | 9 | 81 | 3 | 2 | 0 |
| 35033 | EVANS/ARNOLD AV | | | | | | | | | | | |
| | ETOBICOKE | 100 | 2 | 2 | 2 | 2 | 7 | 61 | 105 | 5 | 3 | 0 |
| 35037 | 3050 LAKESHORE BLVD W | | | | | | | | | | | |
| | ETOBICOKE | 228 | 2 | 2 | 2 | 18 | 135 | 584 | 952 | 43 | 7 | 0 |
| 44008 | Hwy2/NORTH SHORE BLVD E | | | | | | | | | | | |
| | BURLINGTON | 117 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 2 | 0 |
| 44015 | BRONTE RD/WOBURN CRES | | | | | | | | | | | |
| | OAKVILLE | 119 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 2 | 2 | 0 |
| 45001 | FIRE HALL, BAYLY/BROCK | | | | | | | | | | | |
| | PICKERING | 258 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 0 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE | | | | | | | | | | | |
| | OSHAWA | 107 | 2 | 2 | 2 | 2 | 2 | 7 | 10 | 2 | 2 | 0 |
| 46025 | PUB LIBRARY, 110 DUNDAS W | | | | | | | | | | | |
| | MISSISSAUGA | 27 | 2 | 2 | 2 | 8 | 11 | 21 | 24 | 6 | 4 | 0 |
| 46033 | FIRE HALL, BRAMALEA RD | | | | | | | | | | | |
| | BRAMALEA | 44 | 2 | 2 | 2 | 2 | 6 | 23 | 28 | 4 | 3 | 0 |

TABLE A-32 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | RUN DATE JUL 13, 1987 | | |
|--|---|---|----|----|-------------|-----|------|---------------------------------|------|-----|--------------------------|--------------|----------------------------------|
| YEAR - 1986 | | POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE | | | | | | UNIT - .001 MICROGRAMS/CU.METRE | | | | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
| | | | | | 50 | 70 | 90 | | | | | | |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 2 | 2 | 2 | 2 | 2 | 12 | 13 | 2 | 2 | | 0 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 0 |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 1 | 1 | 3 | 4 | 7 | 10 | 11 | 3 | 3 | | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 1 | 1 | 1 | 2 | 4 | 11 | 12 | 2 | 2 | | 0 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 1 | 1 | 1 | 1 | 6 | 26 | 69 | 4 | 2 | | 0 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 1 | 1 | 1 | 1 | 5 | 7 | 7 | 2 | 1 | | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 1 | 1 | 1 | 1 | 5 | 10 | 16 | 2 | 1 | | 0 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 1 | 1 | 1 | 6 | 12 | 29 | 37 | 5 | 2 | | 0 |
| 75010 | OPP STN NORTH BAY | 45 | 1 | 1 | 1 | 5 | 13 | 80 | 108 | 8 | 2 | | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 8 | 28 | 53 | 97 | 327 | 653 | 734 | 113 | 49 | | 0 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 21 | 31 | 43 | 80 | 164 | 364 | 409 | 77 | 51 | | 0 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 43 | 80 | 156 | 300 | 1210 | 2234 | 2290 | 381 | 183 | | 2 |

TABLE A-33 CHROMIUM (Cr) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

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| YEAR - 1986 | | POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE | | | | | | | UNIT - .001 MICROGRAMS/CU.METRE | | | | TIMES ABOVE CRITERIA 24-HR | |
|-------------------|---|---|----|----|-------------|----|----|----|---------------------------------|-----|---------------|--------------|----------------------------------|--|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 4 | 4 | 4 | 13 | 20 | 43 | 45 | 10 | 7 | 0 | | |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 4 | 4 | 4 | 4 | 12 | 17 | 20 | 6 | 5 | 0 | | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 4 | 4 | 4 | 9 | 15 | 35 | 49 | 8 | 6 | 0 | | |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 4 | 4 | 4 | 10 | 19 | 40 | 42 | 9 | 6 | 0 | | |
| 12013 | FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR | 60 | 4 | 5 | 12 | 22 | 27 | 53 | 60 | 16 | 12 | 0 | | |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 4 | 4 | 10 | 15 | 25 | 43 | 47 | 12 | 9 | 0 | | |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 2 | 5 | 10 | 16 | 20 | 42 | 45 | 12 | 9 | 0 | | |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 4 | 4 | 4 | 12 | 19 | 35 | 39 | 10 | 7 | 0 | | |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 2 | 3 | 3 | 6 | 9 | 16 | 19 | 5 | 4 | 0 | | |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 3 | 3 | 3 | 8 | 13 | 18 | 19 | 6 | 5 | 0 | | |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 2 | 2 | 2 | 7 | 12 | 32 | 38 | 6 | 4 | 0 | | |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 2 | 2 | 2 | 3 | 5 | 15 | 16 | 3 | 3 | 0 | | |
| 14016 | HWY40 (OPP LAMTON GS) COURTRIGHT | 340 | 2 | 2 | 3 | 3 | 7 | 14 | 67 | 4 | 3 | 0 | | |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 2 | 2 | 3 | 3 | 7 | 16 | 21 | 4 | 3 | 0 | | |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 2 | 3 | 3 | 6 | 10 | 22 | 24 | 6 | 4 | 0 | | |
| 14064 | CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA | 57 | 3 | 3 | 3 | 3 | 11 | 22 | 23 | 5 | 4 | 0 | | |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 4 | 4 | 4 | 4 | 6 | 31 | 36 | 6 | 5 | 0 | | |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 3 | 3 | 3 | 3 | 8 | 11 | 12 | 4 | 4 | 0 | | |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 4 | 4 | 4 | 4 | 6 | 11 | 11 | 5 | 4 | 0 | | |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 4 | 4 | 4 | 4 | 4 | 11 | 11 | 5 | 4 | 0 | | |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 4 | 4 | 4 | 4 | 4 | 7 | 9 | 4 | 4 | 0 | | |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 4 | 4 | 4 | 4 | 11 | 16 | 18 | 5 | 5 | 0 | | |
| 26029 | EDNA/FREDERICK STS KITCHENER | 58 | 3 | 4 | 4 | 8 | 10 | 17 | 19 | 6 | 5 | 0 | | |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 2 | 2 | 3 | 4 | 9 | 22 | 31 | 5 | 4 | 0 | | |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 4 | 4 | 4 | 9 | 14 | 18 | 20 | 7 | 6 | 0 | | |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 3 | 3 | 4 | 8 | 11 | 21 | 31 | 6 | 5 | 0 | | |

TABLE A-33 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|--|------------------|----|----|-------------|----|----|------|------|----|-----|---------------|--------------|----------------------------------|
| | | | | | 50 | 70 | 90 | | | | | | | |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 3 | 4 | 4 | 7 | 15 | 74 | 84 | 10 | 6 | 0 | | |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 9 | 16 | 21 | 29 | 37 | 66 | 67 | 24 | 20 | 0 | | |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 3 | 4 | 4 | 9 | 15 | 21 | 23 | 7 | 6 | 0 | | |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 4 | 5 | 9 | 12 | 23 | 34 | 35 | 11 | 9 | 0 | | |
| 29025 | BARTON/WENTWORTH HAMILTON | 81 | 4 | 4 | 10 | 20 | 40 | 72 | 86 | 16 | 10 | 0 | | |
| 29067 | 450 HUGHSON ST N HAMILTON | 54 | 3 | 4 | 9 | 13 | 19 | 26 | 28 | 10 | 8 | 0 | | |
| 29102 | 467 BEACH BLVD HAMILTON | 77 | 3 | 4 | 9 | 12 | 19 | 28 | 33 | 10 | 8 | 0 | | |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 3 | 4 | 4 | 9 | 15 | 24 | 26 | 7 | 6 | 0 | | |
| 31058 | MOSLEY/LESLIE STS TORONTO | 322 | 4 | 4 | 4 | 9 | 16 | 25 | 30 | 7 | 6 | 0 | | |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 4 | 4 | 4 | 4 | 16 | 37 | 41 | 8 | 6 | 0 | | |
| 31104 | 26 BREADALBANE TORONTO | 323 | 4 | 4 | 4 | 4 | 16 | 45 | 62 | 7 | 6 | 0 | | |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 4 | 4 | 4 | 9 | 15 | 27 | 52 | 8 | 6 | 0 | | |
| 31126 | 969 EASTERN AV TORONTO | 90 | 4 | 4 | 4 | 4 | 10 | 19 | 24 | 5 | 5 | 0 | | |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 4 | 4 | 4 | 12 | 80 | 1087 | 1250 | 52 | 10 | 0 | | |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 4 | 4 | 4 | 9 | 15 | 71 | 75 | 8 | 6 | 0 | | |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 108 | 4 | 4 | 4 | 4 | 17 | 24 | 31 | 7 | 6 | 0 | | |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 98 | 4 | 4 | 4 | 4 | 15 | 27 | 35 | 7 | 6 | 0 | | |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 4 | 4 | 4 | 5 | 18 | 36 | 37 | 8 | 6 | 0 | | |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 4 | 4 | 4 | 4 | 11 | 24 | 27 | 6 | 5 | 0 | | |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 4 | 4 | 4 | 4 | 12 | 18 | 24 | 6 | 5 | 0 | | |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 2 | 2 | 2 | 3 | 7 | 17 | 55 | 4 | 3 | 0 | | |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 107 | 4 | 4 | 4 | 9 | 18 | 31 | 37 | 8 | 6 | 0 | | |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 4 | 4 | 4 | 10 | 11 | 20 | 21 | 7 | 6 | 0 | | |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 4 | 4 | 4 | 9 | 14 | 17 | 17 | 7 | 6 | 0 | | |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 4 | 4 | 4 | 4 | 10 | 27 | 33 | 5 | 5 | 0 | | |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 4 | 4 | 4 | 4 | 10 | 13 | 13 | 5 | 5 | 0 | | |

TABLE A-33 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|---|------------------|-------------|----|----|----|----|----|-----|---------------|--------------|----------------------------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | | |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 3 | 3 | 7 | 7 | 10 | 18 | 20 | 6 | 5 | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 2 | 3 | 5 | 5 | 8 | 10 | 10 | 5 | 4 | 0 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 4 | 9 | 12 | 14 | 23 | 33 | 35 | 13 | 11 | 0 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 4 | 4 | 6 | 12 | 13 | 17 | 18 | 8 | 7 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 4 | 4 | 4 | 9 | 14 | 23 | 30 | 7 | 6 | 0 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 4 | 4 | 4 | 6 | 12 | 16 | 16 | 6 | 5 | 0 |
| 75010 | OPP STN NORTH BAY | 45 | 4 | 4 | 4 | 4 | 12 | 23 | 23 | 6 | 5 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 4 | 4 | 4 | 4 | 9 | 12 | 12 | 5 | 5 | 0 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 4 | 4 | 4 | 4 | 12 | 17 | 18 | 6 | 5 | 0 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 4 | 4 | 4 | 9 | 16 | 23 | 25 | 7 | 6 | 0 |

TABLE A-34 CADMIUM (Cd) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE JUL 13, 1987 |
|--|--|--|----|----|-------------|---------------------------------|---|----|----|-----|---------------|----------------------------------|
| YEAR - 1986 | | POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE | | | | UNIT - .001 MICROGRAMS/CU.METRE | | | | | | TIMES ABOVE CRITERIA 24-HR |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | 99 | MAX | ARITH MEAN | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 1 | 1 | 1 | 2 | 4 | 11 | 12 | 2 | 1 | 0 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 1 | 1 | 1 | 1 | 3 | 8 | 9 | 1 | 0 | 0 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 1 | 1 | 1 | 3 | 8 | 16 | 23 | 3 | 1 | 0 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 1 | 1 | 1 | 2 | 5 | 9 | 11 | 2 | 1 | 0 |
| 12013 | FILTRAT PLT,3665 MYANDOTTE ST E WINDSOR | 60 | 1 | 1 | 2 | 3 | 5 | 12 | 13 | 2 | 1 | 0 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 1 | 1 | 1 | 3 | 7 | 12 | 13 | 3 | 1 | 0 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 1 | 1 | 1 | 1 | 3 | 10 | 17 | 2 | 1 | 0 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 1 | 1 | 1 | 2 | 4 | 13 | 23 | 2 | 1 | 0 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 1 | 1 | 1 | 2 | 3 | 11 | 17 | 2 | 1 | 0 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 1 | 1 | 1 | 1 | 4 | 12 | 20 | 1 | 1 | 0 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 1 | 1 | 1 | 2 | 3 | 13 | 18 | 2 | 1 | 0 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 0 | 0 | 0 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 1 | 1 | 1 | 1 | 2 | 3 | 6 | 1 | 0 | 0 |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 57 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 1 | 1 | 1 | 1 | 3 | 5 | 6 | 1 | 0 | 0 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 0 | 0 | 0 |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 0 |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 0 |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 1 | 1 | 1 | 1 | 1 | 4 | 5 | 0 | 0 | 0 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 0 | 0 |

TABLE A-34 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

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YEAR - 1986

POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE

UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|--|------------------|-------------|----|----|----|----|-----|-----|---------------|--------------|----------------------------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | | | |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 1 | 1 | 1 | 1 | 2 | 7 | 17 | 1 | 0 | 0 |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 1 | 1 | 0 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 0 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 81 | 1 | 1 | 1 | 2 | 3 | 5 | 6 | 1 | 1 | 0 |
| 29067 | 450 HUGHSON ST N HAMILTON | 54 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 1 | 1 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 80 | 1 | 1 | 1 | 1 | 3 | 4 | 6 | 1 | 1 | 0 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 1 | 1 | 0 |
| 31058 | MOSLEY/LESLIE STS TORONTO | 322 | 1 | 1 | 1 | 3 | 6 | 26 | 47 | 3 | 1 | 0 |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 1 | 1 | 1 | 1 | 2 | 6 | 10 | 1 | 0 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 323 | 1 | 1 | 1 | 1 | 4 | 6 | 9 | 1 | 1 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 1 | 1 | 1 | 1 | 2 | 6 | 9 | 1 | 0 | 0 |
| 31126 | 969 EASTERN AV TORONTO | 90 | 1 | 2 | 3 | 3 | 4 | 9 | 15 | 3 | 2 | 0 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 1 | 1 | 1 | 1 | 2 | 6 | 12 | 1 | 0 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 0 | 0 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 108 | 1 | 1 | 1 | 1 | 1 | 5 | 15 | 1 | 0 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 98 | 1 | 1 | 1 | 1 | 1 | 5 | 22 | 1 | 0 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 1 | 1 | 1 | 1 | 1 | 6 | 7 | 1 | 0 | 0 |
| 35037 | 3050 LAKESHORE BLVD W ETOBICOKE | 228 | 1 | 1 | 3 | 9 | 53 | 218 | 685 | 20 | 3 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 1 | 1 | 1 | 1 | 3 | 3 | 4 | 1 | 0 | 0 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 1 | 3 | 4 | 8 | 17 | 35 | 74 | 7 | 4 | 0 |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 0 | 0 | 0 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 107 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 1 | 0 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 0 |

TABLE A-34 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE | |
|--|---|--|----|----|-------------|---|----|---------------------------------|----|-----|---------------|--------------|----------------------------------|
| YEAR - 1986 | | POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE | | | | | | UNIT - .001 MICROGRAMS/CU.METRE | | | | JUL 13, 1987 | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | 99 | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 0 | |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | |
| 75010 | OPP STN NORTH BAY | 45 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 0 | |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 1 | 1 | 1 | 1 | 3 | 11 | 12 | 1 | 1 | 0 | |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 1 | 1 | 1 | 1 | 2 | 5 | 6 | 1 | 0 | 0 | |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 1 | 1 | 1 | 1 | 16 | 58 | 62 | 5 | 1 | 0 | |

TABLE A-35 VANADIUM (V) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | | RUN DATE JUL 13, 1987 | |
|--|--|---|-------------|----|----|----|----|---------------------------------|---------------|--------------|----------------------------------|--------------------------|--|
| YEAR - 1986 | | POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE | | | | | | UNIT - .001 MICROGRAMS/CU.METRE | | | | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR | | |
| | | | 10 | 30 | 50 | 70 | 90 | 99 | | | | MAX | |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 4 | 4 | 4 | 4 | 13 | 32 | 36 | 7 | 6 | 0 | |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 4 | 4 | 4 | 4 | 14 | 33 | 37 | 7 | 5 | 0 | |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 4 | 4 | 4 | 4 | 18 | 51 | 66 | 8 | 6 | 0 | |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 4 | 4 | 4 | 10 | 16 | 27 | 29 | 8 | 7 | 0 | |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 60 | 4 | 4 | 4 | 9 | 16 | 28 | 29 | 7 | 6 | 0 | |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 4 | 4 | 4 | 9 | 13 | 18 | 19 | 7 | 6 | 0 | |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 2 | 3 | 3 | 3 | 8 | 14 | 20 | 4 | 3 | 0 | |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 57 | 4 | 4 | 4 | 4 | 12 | 32 | 48 | 7 | 5 | 0 | |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 2 | 3 | 3 | 5 | 10 | 16 | 16 | 5 | 4 | 0 | |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 3 | 3 | 7 | 8 | 15 | 28 | 31 | 7 | 6 | 0 | |
| 12051 | 604 CAPITOL/REHINGTON WINDSOR | 30 | 2 | 3 | 6 | 8 | 12 | 19 | 21 | 7 | 5 | 0 | |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 2 | 2 | 3 | 3 | 9 | 20 | 23 | 4 | 3 | 0 | |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 2 | 3 | 3 | 9 | 30 | 98 | 120 | 12 | 6 | 0 | |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 2 | 2 | 3 | 6 | 13 | 25 | 32 | 6 | 4 | 0 | |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 2 | 3 | 3 | 6 | 14 | 57 | 129 | 8 | 4 | 0 | |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 57 | 3 | 3 | 7 | 12 | 37 | 89 | 89 | 14 | 8 | 0 | |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 4 | 4 | 4 | 6 | 18 | 28 | 35 | 8 | 6 | 0 | |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 3 | 3 | 3 | 3 | 12 | 39 | 47 | 6 | 4 | 0 | |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 36 | 4 | 4 | 4 | 4 | 12 | 19 | 20 | 6 | 5 | 0 | |
| 15015 | 951 COMMISSIONERS RD E LONDON | 35 | 4 | 4 | 4 | 4 | 4 | 7 | 9 | 4 | 4 | 0 | |
| 15016 | 801 COMMISSIONERS RD E LONDON | 37 | 4 | 4 | 4 | 4 | 10 | 16 | 17 | 5 | 5 | 0 | |
| 15017 | 8 MOUNTSFIELD DR LONDON | 36 | 4 | 4 | 4 | 4 | 14 | 41 | 47 | 8 | 6 | 0 | |
| 26029 | EDNA/FREDERICK STS KITCHENER | 58 | 3 | 4 | 4 | 7 | 15 | 24 | 26 | 7 | 5 | 0 | |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 2 | 3 | 4 | 8 | 13 | 65 | 87 | 9 | 5 | 0 | |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 3 | 4 | 4 | 4 | 12 | 42 | 56 | 7 | 5 | 0 | |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 3 | 4 | 7 | 10 | 19 | 35 | 36 | 9 | 7 | 0 | |

TABLE A-35 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE UNIT - .001 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
|-------------------|--|------------------|-------------|----|----|----|----|-----|-----|---------------|--------------|----------------------------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | | |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 3 | 4 | 5 | 11 | 28 | 65 | 73 | 12 | 8 | 0 |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 4 | 8 | 11 | 18 | 28 | 40 | 41 | 14 | 11 | 0 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 3 | 4 | 4 | 13 | 21 | 55 | 60 | 12 | 7 | 0 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 3 | 4 | 7 | 15 | 80 | 130 | 140 | 22 | 9 | 0 |
| 29025 | BARTON/WENTWORTH HAMILTON | 81 | 4 | 4 | 5 | 14 | 23 | 42 | 47 | 11 | 8 | 0 |
| 29067 | 450 HUGHSON ST N HAMILTON | 54 | 3 | 4 | 4 | 7 | 16 | 21 | 22 | 7 | 6 | 0 |
| 29102 | 467 BEACH BLVD HAMILTON | 77 | 4 | 4 | 9 | 13 | 22 | 43 | 50 | 11 | 8 | 0 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 3 | 4 | 4 | 8 | 13 | 21 | 22 | 7 | 5 | 0 |
| 31058 | MOSLEY/LESLIE STS TORONTO | 322 | 4 | 4 | 4 | 4 | 15 | 32 | 75 | 7 | 6 | 0 |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 4 | 4 | 4 | 4 | 11 | 20 | 21 | 5 | 5 | 0 |
| 31104 | 26 BREADALBANE TORONTO | 323 | 4 | 4 | 4 | 4 | 13 | 30 | 46 | 6 | 5 | 0 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 4 | 4 | 4 | 4 | 14 | 32 | 36 | 7 | 6 | 0 |
| 31126 | 969 EASTERN AV TORONTO | 90 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 4 | 4 | 4 | 4 | 13 | 23 | 30 | 6 | 5 | 0 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 4 | 4 | 4 | 4 | 11 | 18 | 22 | 6 | 5 | 0 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 108 | 4 | 4 | 4 | 4 | 11 | 20 | 22 | 6 | 5 | 0 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 97 | 4 | 4 | 4 | 4 | 14 | 35 | 89 | 8 | 6 | 0 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 4 | 4 | 4 | 4 | 13 | 28 | 32 | 6 | 5 | 0 |
| 35037 | 3050 LAKESHORE BLVD W ETOBICOKE | 228 | 4 | 4 | 4 | 4 | 11 | 16 | 21 | 6 | 5 | 0 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 4 | 4 | 4 | 4 | 13 | 16 | 17 | 6 | 5 | 0 |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 4 | 4 | 4 | 4 | 14 | 21 | 28 | 7 | 6 | 0 |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 2 | 2 | 3 | 3 | 9 | 15 | 22 | 4 | 3 | 0 |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 107 | 4 | 4 | 4 | 4 | 13 | 23 | 26 | 6 | 5 | 0 |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 4 | 4 | 4 | 4 | 15 | 22 | 23 | 7 | 6 | 0 |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 4 | 4 | 4 | 11 | 16 | 36 | 42 | 9 | 7 | 0 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 4 | 4 | 4 | 4 | 12 | 22 | 22 | 6 | 5 | 0 |

TABLE A-35 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | RUN DATE | |
|--|---|------------------|----|----|-------------|----|----|-----|-----|---------------|---------------------------------|----------------------------------|
| YEAR - 1986 | | | | | | | | | | | JUL 13, 1987 | |
| POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE | | | | | | | | | | | UNIT - .001 MICROGRAMS/CU.METRE | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | 99 | MAX | ARITH MEAN | GEOM MEAN | TIMES ABOVE CRITERIA 24-HR |
| | | | | | 50 | 70 | 90 | | | | | |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 4 | 4 | 4 | 4 | 4 | 23 | 38 | 5 | 4 | 0 |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 2 | 3 | 3 | 7 | 7 | 12 | 16 | 5 | 4 | 0 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 2 | 3 | 5 | 6 | 9 | 13 | 15 | 5 | 4 | 0 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 4 | 4 | 6 | 14 | 19 | 29 | 33 | 10 | 8 | 0 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 4 | 4 | 4 | 4 | 12 | 42 | 93 | 8 | 6 | 0 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 4 | 4 | 4 | 10 | 27 | 133 | 140 | 16 | 7 | 0 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 4 | 4 | 4 | 4 | 14 | 47 | 56 | 7 | 5 | 0 |
| 75010 | OPP STN NORTH BAY | 45 | 4 | 4 | 4 | 4 | 4 | 10 | 10 | 4 | 4 | 0 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 4 | 4 | 4 | 4 | 10 | 22 | 31 | 6 | 5 | 0 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 4 | 4 | 4 | 4 | 10 | 13 | 13 | 5 | 5 | 0 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 4 | 4 | 4 | 4 | 9 | 15 | 16 | 5 | 5 | 0 |

TABLE A-36 MAXIMUM MONITORED LEVELS FOR TRACE METALS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | |
|--|--|------------------------------|--------|-------------------|----------------|--------|-------------------|------------------|--------|-------------------|
| YEAR - 1986 | | POLLUTANTS - CHROMIUM IN TSP | | UNIT - .001 UG/M3 | NICKEL IN TSP | | UNIT - .001 UG/M3 | IRON IN TSP | | UNIT - .1 UG/M3 |
| | | COBALT IN TSP | | UNIT - .01 UG/M3 | CADMIUM IN TSP | | UNIT - .001 UG/M3 | MANGANESE IN TSP | | UNIT - .001 UG/M3 |
| | | VANADIUM IN TSP | | UNIT - .001 UG/M3 | | | | | | |
| | | COPPER IN TSP | | UNIT - .01 UG/M3 | | | | | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | CR MAX | CO MAX | VV MAX | CU MAX | FE MAX | NI MAX | CD MAX | MN MAX |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 45 | 1 | 36 | 86 | 38 | 150 | 12 | 166 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 20 | 1 | 37 | 19 | 29 | 23 | 9 | 176 |
| 12007 | WRIGHT/WATER ST WINDSOR | 33 | N/A | N/A | N/A | N/A | 59 | N/A | N/A | N/A |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 49 | 1 | 66 | 79 | 170 | 150 | 23 | 500 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 42 | 1 | 29 | 99 | 42 | 37 | 11 | 200 |
| 12013 | FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR | 60 | 60 | 1 | 29 | 100 | 155 | 45 | 13 | 1050 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 47 | 1 | 19 | 69 | 64 | 19 | 13 | 230 |
| 12016 | COLLEGE/SOUTH ST WINDSOR | 76 | N/A | N/A | N/A | N/A | 104 | N/A | N/A | N/A |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 45 | 0 | 20 | 50 | 345 | 28 | 17 | 205 |
| 12039 | DOUGLAS ST/E.C ROW W WINDSOR | 58 | 39 | 0 | 48 | 83 | 87 | 22 | 23 | 200 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 19 | 0 | 16 | 110 | 54 | 130 | 17 | 380 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 19 | 0 | 31 | 49 | 44 | 11 | 20 | 150 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 53 | 38 | 0 | 21 | N/A | 65 | 15 | 18 | 120 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 16 | 0 | 23 | 68 | 20 | 6 | 4 | 40 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 340 | 67 | 0 | 120 | 82 | 20 | 41 | 6 | 123 |
| 14030 | RR1 (W OF HOUSE) CORUNNA | 53 | 21 | 1 | 32 | 26 | 14 | 32 | 3 | 54 |
| 14031 | RR1 (W OF BARN) MOORETOWN | 50 | 24 | 0 | 129 | 16 | 11 | 11 | 3 | 36 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 57 | 23 | 1 | 89 | 64 | 15 | 30 | 2 | 180 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 36 | 2 | 35 | 38 | 22 | 7 | 6 | 89 |
| 15009 | LONGWOODS CONSERVATION AUTHORITY | 114 | 12 | 1 | 47 | 304 | 24 | 58 | 4 | 71 |
| 15014 | POND MILLS RD/DEVERON CRES LONDON | 114 | 11 | N/A | 20 | 121 | 25 | 1 | 2 | 100 |
| 15015 | 951 COMMISSIONERS RD. E LONDON | 36 | 11 | N/A | 9 | 8 | 16 | 19 | 3 | 41 |
| 15016 | 801 COMMISSIONERS RD. E LONDON | 35 | 9 | N/A | 17 | 47 | 14 | 15 | 3 | 46 |
| 15017 | 8 MOUNTSFIELD DR. LONDON | 37 | 18 | N/A | 47 | 32 | 17 | 1 | 5 | 48 |

RUN DATE
MAR 31,1987

| STATION NUMBER | LOCATION | POLLUTANTS - 1986 | | | | | | | | | | | | | | | | | | |
|-------------------|---|-------------------|-------------------|-------------------|------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | CHROMIUM IN TSP | UNIT - .001 UG/M3 | COBALT IN TSP | UNIT - .01 UG/M3 | IRON IN TSP | UNIT - .1 UG/M3 | CADMIUM IN TSP | UNIT - .001 UG/M3 | MANGANESE IN TSP | UNIT - .001 UG/M3 | NO OF SAMPLES | CR MAX | CO MAX | VV MAX | CU MAX | FE MAX | NI MAX | CD MAX | MN MAX |
| | | UNIT - .001 UG/M3 | UNIT - .01 UG/M3 | UNIT - .001 UG/M3 | UNIT - .01 UG/M3 | UNIT - .1 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 |
| | | UNIT - .001 UG/M3 | UNIT - .01 UG/M3 | UNIT - .001 UG/M3 | UNIT - .01 UG/M3 | UNIT - .1 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 | UNIT - .001 UG/M3 |
| 17022 | 182 WATER ST WINGHAM | 36 | N/A | N/A | N/A | N/A | 24 | N/A | N/A | 400 | | | | | | | | | | |
| 18014 | 369 LEOPOLD ST WINGHAM | 20 | N/A | N/A | N/A | N/A | 12 | N/A | N/A | 70 | | | | | | | | | | |
| 18015 | TROWBRIDGE MEAFORD | 18 | N/A | N/A | N/A | N/A | 65 | N/A | N/A | 104 | | | | | | | | | | |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 19 | 1 | 26 | 97 | 24 | 17 | 2 | 134 | | | | | | | | | | |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 31 | 1 | 87 | 52 | 21 | 70 | 1 | 131 | | | | | | | | | | |
| 27047 | DAVIS/FRAZER PORT COLBORNE | 54 | N/A | N/A | N/A | N/A | N/A | 960 | N/A | N/A | | | | | | | | | | |
| 27059 | 188 EASTCHESTER AV ST CATHARINES | 38 | 20 | N/A | 56 | 36 | 51 | 9 | 2 | 250 | | | | | | | | | | |
| 27060 | PETRIE ST/DUNKIRK RD ST CATHARINES | 45 | 31 | N/A | 36 | 21 | 36 | 22 | 3 | 189 | | | | | | | | | | |
| 29001 | HUGHSON/HUNTER HAMILTON | 52 | 84 | 1 | 73 | 57 | 380 | 28 | 17 | 2390 | | | | | | | | | | |
| 29011 | BURLINGTON/LEEDS HAMILTON | 55 | 67 | 1 | 41 | 38 | 249 | 24 | 4 | 1230 | | | | | | | | | | |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 52 | 23 | 1 | 60 | 40 | 108 | 21 | 3 | 912 | | | | | | | | | | |
| 29017 | CHATHAM/FRID HAMILTON | 50 | 35 | 2 | 140 | 64 | 128 | 22 | 2 | 1080 | | | | | | | | | | |
| 29025 | BARTON/WENTWORTH HAMILTON | 78 | 86 | 1 | 47 | 42 | 268 | 42 | 6 | 1190 | | | | | | | | | | |
| 29067 | 450 HUGHSON ST N HAMILTON | 53 | 28 | 1 | 22 | 20 | 116 | 20 | 3 | 621 | | | | | | | | | | |
| 29102 | 467 BEACH BLVD HAMILTON | 77 | 33 | 1 | 50 | 55 | 185 | 25 | 6 | 1520 | | | | | | | | | | |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 50 | 26 | 1 | 22 | 22 | 87 | 154 | 5 | 436 | | | | | | | | | | |
| 31058 | MOSLEY/LESLIE STS TORONTO | 322 | 30 | 1 | 75 | 50 | 65 | 13 | 47 | 170 | | | | | | | | | | |
| 31064 | 17 BERKSHIRE AV TORONTO | 80 | 41 | 1 | 21 | 58 | 53 | 6 | 10 | 144 | | | | | | | | | | |
| 31104 | 26 BREADALBANE TORONTO | 323 | 62 | 1 | 46 | 157 | 28 | 24 | 9 | 101 | | | | | | | | | | |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 52 | 0 | 36 | 95 | 20 | 24 | 9 | 85 | | | | | | | | | | |
| 31126 | 969 EASTERN AVE. TORONTO | 90 | 24 | 0 | 4 | 22 | 58 | 33 | 15 | 150 | | | | | | | | | | |
| 32008 | 30 INDUSTRIAL ST (NUODEX) EAST YORK | 192 | 1250 | 3 | 30 | 135 | 91 | 1620 | 12 | 212 | | | | | | | | | | |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 75 | 2 | 22 | 52 | 26 | 6 | 3 | 90 | | | | | | | | | | |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 108 | 31 | 1 | 22 | 58 | 23 | 10 | 15 | 90 | | | | | | | | | | |

TABLE A-36 (Cont.)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | RUN DATE MAR 31,1987 | |
|--|---|------------------|-----------|-------------------|------------------|-----------|-----------|-------------------|-----------|-------------------------|--|
| YEAR - 1986 | POLLUTANTS - CHROMIUM IN TSP | | | UNIT - .001 UG/M3 | NICKEL IN TSP | | | UNIT - .001 UG/M3 | | | |
| | COBALT IN TSP | | | UNIT - .01 UG/M3 | IRON IN TSP | | | UNIT - .1 UG/M3 | | | |
| | VANADIUM IN TSP | | | UNIT - .001 UG/M3 | CADMIUM IN TSP | | | UNIT - .001 UG/M3 | | | |
| | COPPER IN TSP | | | UNIT - .01 UG/M3 | MANGANESE IN TSP | | | UNIT - .001 UG/M3 | | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | CR MAX | CO MAX | VV MAX | CU MAX | FE MAX | NI MAX | CD MAX | MN MAX | |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 98 | 35 | 1 | 89 | 181 | 112 | 81 | 22 | 229 | |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 37 | 1 | 32 | 27 | 23 | 105 | 7 | 107 | |
| 35037 | 3050 LAKESHORE BLVD W ETOBICOKE | 228 | N/A | 1 | 21 | 415 | 32 | 952 | 685 | 121 | |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 27 | 1 | 17 | 20 | 27 | 4 | 4 | 168 | |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 24 | 1 | 28 | 44 | 24 | 6 | 74 | 190 | |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 55 | 0 | 22 | 57 | 25 | 2 | 4 | 89 | |
| 45011 | PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA | 107 | 37 | 0 | 26 | 47 | 46 | 10 | 2 | 289 | |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 21 | 0 | 23 | 20 | 25 | 24 | 2 | 80 | |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 17 | 1 | 42 | 53 | 39 | 28 | 4 | 190 | |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 33 | 0 | 22 | 39 | 13 | 13 | 3 | 84 | |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 13 | 0 | 38 | 31 | 21 | 2 | 3 | 93 | |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 20 | 0 | 16 | 52 | 40 | 11 | 1 | 104 | |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 10 | 0 | 15 | 102 | 54 | 12 | 1 | 118 | |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 35 | 1 | 33 | 28 | 243 | 69 | 2 | 1870 | |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 48 | 18 | 0 | 93 | 83 | 64 | 7 | 2 | 272 | |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 73 | 30 | 1 | 140 | 23 | 118 | 16 | 2 | 1140 | |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 16 | 0 | 56 | 12 | 21 | 27 | 2 | 45 | |
| 75010 | OPP STN NORTH BAY | 45 | 23 | 1 | 10 | 33 | 35 | 108 | 3 | 66 | |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 12 | 3 | 31 | 140 | 63 | 734 | 12 | 36 | |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 18 | 1 | 13 | 96 | 27 | 409 | 6 | 47 | |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 51 | 25 | 6 | 16 | 986 | 84 | 2290 | 62 | N/A | |

TABLE A-37 NITRATE (NO₃) STATISTICS (1986)

| ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH | | | | | | | | | | | |
|--|---|--|----|----|----|-------------------------------|-----|-----|-----|------------|-----------|
| YEAR - 1986 | | POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE | | | | UNIT - .1 MICROGRAMS/CU.METRE | | | | | |
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | 50 | 70 | 90 | 99 | MAX | ARITH MEAN | GEOM MEAN |
| 10015 | PUC BLDG, 64 WEST ST GODERICH | 59 | 4 | 14 | 26 | 41 | 71 | 119 | 143 | 34 | 20 |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 14 | 29 | 46 | 54 | 77 | 122 | 123 | 45 | 29 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 9 | 25 | 40 | 58 | 79 | 109 | 123 | 43 | 24 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 18 | 33 | 49 | 70 | 107 | 189 | 239 | 57 | 43 |
| 12009 | 9725 RIVERSIDE DR E LITTLE RIVER | 56 | 12 | 23 | 34 | 49 | 62 | 118 | 131 | 38 | 31 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 17 | 26 | 41 | 53 | 71 | 121 | 129 | 44 | 38 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 23 | 31 | 46 | 59 | 84 | 119 | 122 | 49 | 40 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 13 | 21 | 28 | 42 | 68 | 107 | 114 | 36 | 30 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 22 | 30 | 38 | 51 | 83 | 124 | 143 | 47 | 38 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 16 | 26 | 31 | 47 | 64 | 96 | 101 | 39 | 34 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 18 | 24 | 31 | 45 | 66 | 141 | 146 | 40 | 33 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 17 | 23 | 27 | 33 | 62 | 130 | 134 | 36 | 29 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 18 | 27 | 36 | 48 | 71 | 124 | 130 | 41 | 35 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 339 | 11 | 20 | 30 | 45 | 66 | 108 | 186 | 36 | 28 |
| 14064 | CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA | 58 | 9 | 19 | 26 | 41 | 76 | 102 | 107 | 36 | 27 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 13 | 25 | 39 | 56 | 87 | 143 | 146 | 48 | 36 |
| 15003 | 362 DUNDAS ST LONDON | 55 | 11 | 23 | 43 | 59 | 87 | 148 | 160 | 48 | 37 |
| 22904 | WALPOLE S PS, SANDUSK RD NANTICOKE | 35 | 14 | 19 | 29 | 37 | 46 | 66 | 69 | 30 | 25 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 11 | 22 | 34 | 63 | 94 | 126 | 128 | 45 | 33 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 15 | 25 | 38 | 59 | 73 | 107 | 117 | 43 | 35 |
| 27056 | ALLENDALE AV NIAGARA FALLS | 53 | 16 | 22 | 31 | 49 | 80 | 131 | 133 | 41 | 31 |
| 28028 | EXHIBITION ST/CLARK ST GUELPH | 50 | 11 | 23 | 36 | 63 | 84 | 125 | 153 | 45 | 34 |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 13 | 30 | 49 | 76 | 134 | 244 | 372 | 65 | 45 |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 16 | 26 | 45 | 69 | 99 | 224 | 364 | 57 | 42 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 13 | 28 | 41 | 74 | 104 | 204 | 349 | 56 | 40 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 12 | 21 | 43 | 66 | 94 | 109 | 115 | 49 | 37 |

TABLE A-37 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE | | | UNIT - .1 MICROGRAMS/CU.METRE | | | | | | | | |
|-------------------|--|--|----|----|-------------------------------|----|-----|-----|-----|---------------|--------------|--|--|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | PERCENTILES | | | | | ARITH MEAN | GEOM MEAN | | |
| | | | | | 50 | 70 | 90 | 99 | MAX | | | | |
| 29025 | BARTON/WENTWORTH HAMILTON | 85 | 15 | 29 | 42 | 63 | 107 | 229 | 335 | 55 | 39 | | |
| 29087 | 405 CUMBERLAND AV HAMILTON | 55 | 9 | 24 | 39 | 58 | 85 | 221 | 424 | 51 | 34 | | |
| 29102 | 467 BEACH BLVD HAMILTON | 81 | 10 | 27 | 42 | 63 | 101 | 164 | 188 | 51 | 37 | | |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 11 | 20 | 33 | 51 | 87 | 138 | 152 | 41 | 29 | | |
| 31104 | 26 BREADALBANE TORONTO | 322 | 12 | 26 | 41 | 67 | 93 | 148 | 200 | 50 | 34 | | |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 13 | 23 | 34 | 59 | 80 | 159 | 290 | 45 | 34 | | |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 10 | 25 | 37 | 51 | 80 | 130 | 150 | 42 | 31 | | |
| 33019 | REDLAND CR (SCARB BLUFFS) SCARBORO | 70 | 11 | 20 | 33 | 53 | 73 | 139 | 147 | 40 | 30 | | |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 107 | 9 | 19 | 34 | 50 | 79 | 141 | 148 | 40 | 27 | | |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 97 | 9 | 24 | 37 | 57 | 99 | 191 | 194 | 48 | 35 | | |
| 35005 | QUEENSWAY HOSPITAL ETOBICOKE | 106 | 15 | 24 | 36 | 55 | 90 | 114 | 162 | 45 | 36 | | |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 15 | 24 | 40 | 66 | 87 | 137 | 172 | 48 | 38 | | |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 15 | 26 | 39 | 56 | 89 | 127 | 258 | 48 | 38 | | |
| 44015 | BRONTE RD/WOBURN CRES OAKVILLE | 119 | 13 | 20 | 31 | 47 | 81 | 102 | 182 | 39 | 31 | | |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 6 | 16 | 29 | 43 | 77 | 124 | 161 | 35 | 22 | | |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 108 | 9 | 23 | 37 | 52 | 79 | 116 | 150 | 42 | 30 | | |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 11 | 21 | 29 | 46 | 70 | 120 | 134 | 39 | 30 | | |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 13 | 26 | 41 | 55 | 90 | 138 | 151 | 48 | 37 | | |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 109 | 12 | 23 | 34 | 49 | 80 | 121 | 132 | 41 | 31 | | |
| 47019 | POST OFFICE, 17-25 PETER ST S ORILLIA | 56 | 3 | 13 | 20 | 39 | 62 | 111 | 115 | 30 | 16 | | |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 5 | 12 | 26 | 37 | 65 | 154 | 181 | 32 | 19 | | |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 103 | 6 | 16 | 30 | 49 | 79 | 138 | 169 | 37 | 21 | | |
| 58027 | 51 SHUTER ST PORT HOPE | 87 | 4 | 15 | 22 | 35 | 51 | 81 | 106 | 28 | 17 | | |
| 58041 | FILT PLT, MARSH ST PORT HOPE | 89 | 6 | 16 | 22 | 34 | 52 | 108 | 110 | 28 | 18 | | |
| 58042 | CAN TIRE, QUEEN ST PORT HOPE | 76 | 5 | 12 | 20 | 32 | 41 | 57 | 65 | 22 | 16 | | |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 5 | 11 | 20 | 29 | 51 | 75 | 84 | 24 | 16 | | |

TABLE A-37 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE

UNIT - .1 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | | ARITH MEAN | GEOM MEAN |
|-------------------|---|------------------|-------------|----|----|----|----|----|-----|---------------|--------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 3 | 7 | 11 | 16 | 34 | 53 | 59 | 15 | 9 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 2 | 5 | 7 | 10 | 23 | 44 | 52 | 10 | 7 |
| 63040 | 435 JAMES ST S THUNDER BAY | 49 | 2 | 5 | 8 | 11 | 20 | 35 | 40 | 10 | 7 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 1 | 3 | 8 | 14 | 31 | 61 | 69 | 13 | 6 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 47 | 4 | 6 | 9 | 15 | 31 | 54 | 57 | 14 | 9 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 72 | 4 | 6 | 13 | 17 | 43 | 56 | 57 | 16 | 10 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 1 | 3 | 6 | 10 | 14 | 23 | 23 | 7 | 4 |
| 75010 | OPP STN NORTH BAY | 45 | 3 | 6 | 9 | 17 | 28 | 48 | 51 | 14 | 9 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 1 | 6 | 7 | 13 | 17 | 50 | 51 | 11 | 6 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 1 | 4 | 11 | 14 | 33 | 49 | 49 | 13 | 6 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 50 | 1 | 4 | 6 | 14 | 26 | 35 | 40 | 10 | 5 |

TABLE A-38 10-YEAR TREND FOR NO₃

| City | Annual geometric mean (ug/m3) | | | | | | | | | |
|-------------|-------------------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| BELLEVILLE | 1.2 | 2.3 | 3.3 | 2.6 | 2.0 | 2.5 | 2.9 | 2.7 | 3.2 | - |
| BRAMALEA | 2.1 | 2.9 | 3.8 | 2.9 | 3.0 | 4.3 | 3.8 | 3.8 | 3.6 | 3.7 |
| CHATHAM | 4.2 | 4.2 | 5.2 | 5.3 | 4.6 | 3.7 | 3.1 | 3.5 | 3.5 | 3.5 |
| CORNWALL | 1.0 | 2.0 | 2.5 | 2.1 | 2.4 | 2.2 | 2.3 | 2.4 | - | - |
| ETOBICOKE | 2.4 | 4.3 | 4.1 | 4.6 | 4.9 | 4.9 | 3.3 | 3.7 | 3.0 | 3.8 |
| HAMILTON | 2.5 | 4.1 | 4.0 | 3.8 | 3.4 | 3.7 | 3.7 | 3.8 | 3.5 | 3.8 |
| LONDON | 2.4 | 3.9 | 4.9 | 4.5 | 3.5 | 3.6 | 3.3 | 3.6 | 3.3 | 3.6 |
| MISSISSAUGA | 2.3 | 3.3 | 3.6 | 3.1 | 3.5 | 4.0 | 4.1 | 3.8 | 3.5 | 3.0 |
| NORTH BAY | .9 | 3.1 | 2.0 | 1.4 | 1.2 | 1.2 | 1.2 | 1.1 | 1.0 | .9 |
| NORTH YORK | 2.0 | 3.4 | 4.4 | 3.3 | 3.1 | 3.2 | 3.1 | 3.3 | 3.1 | 2.7 |
| PICKERING | 1.9 | 3.5 | 3.1 | 2.5 | 2.7 | 2.7 | 2.0 | 2.4 | 2.4 | 2.2 |
| SCARBORO | 2.1 | 3.1 | 3.6 | 3.4 | 3.0 | 3.3 | 3.2 | 3.6 | 3.2 | 3.1 |
| SUDBURY | .6 | 1.0 | 1.0 | 1.2 | 1.6 | 1.1 | 1.3 | .9 | .8 | .6 |
| THUNDER BAY | 1.0 | 1.0 | .7 | 1.2 | 1.5 | 1.2 | .7 | .9 | .8 | .9 |
| TORONTO | 2.7 | 3.8 | 4.2 | 3.7 | 3.7 | 3.8 | 3.6 | 3.5 | 3.5 | 3.4 |
| WINDSOR | 3.9 | 5.3 | 5.7 | 5.5 | 5.8 | 4.4 | 4.1 | 3.5 | 3.9 | 2.9 |

TABLE A-39 SULPHATE (SO₄²⁻) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE | UNIT - .1 MICROGRAMS/CU.METRE | | | | | | | ARITH | GEOM | |
|-------------|---|-------------------------------|----|-----|-----|-----|-----|-----|-------|------|------|
| STATION | | NO OF | 10 | 30 | 50 | 70 | 90 | 99 | MAX | MEAN | MEAN |
| NUMBER | LOCATION | SAMPLES | | | | | | | | | |
| 10015 | PUC BLDG, 64 WEST ST GODERICH | 59 | 31 | 57 | 80 | 96 | 117 | 143 | 152 | 77 | 65 |
| 12002 | CITY HALL, 444 WINDSOR AV WINDSOR | 55 | 65 | 83 | 106 | 126 | 168 | 281 | 314 | 114 | 105 |
| 12005 | 7730 RIVERSIDE DR E WINDSOR | 52 | 60 | 76 | 88 | 117 | 153 | 245 | 260 | 101 | 84 |
| 12008 | 467 UNIVERSITY AV W WINDSOR | 313 | 57 | 83 | 106 | 135 | 214 | 396 | 443 | 121 | 104 |
| 12009 | 9725 RIVERSIDE DR E LITTLE RIVER | 56 | 37 | 60 | 81 | 98 | 125 | 260 | 307 | 85 | 75 |
| 12010 | SEWAGE STN, HANNING RD WINDSOR | 54 | 54 | 73 | 97 | 114 | 179 | 293 | 337 | 104 | 89 |
| 12015 | SEWAGE STN, HWY 18/PROSPECT WINDSOR | 53 | 57 | 94 | 111 | 138 | 172 | 223 | 272 | 116 | 107 |
| 12038 | 2885 HOWARD AV WINDSOR | 56 | 37 | 55 | 70 | 79 | 114 | 204 | 252 | 75 | 67 |
| 12039 | DOUGLAS ST/E.C. ROW W WINDSOR | 58 | 56 | 73 | 96 | 110 | 149 | 265 | 277 | 99 | 92 |
| 12047 | DORWIN PLAZA, DOUGALL AV WINDSOR | 52 | 44 | 57 | 76 | 84 | 114 | 186 | 254 | 78 | 71 |
| 12049 | 643 ALEXANDRINE WINDSOR | 53 | 42 | 60 | 70 | 87 | 122 | 194 | 243 | 80 | 73 |
| 12051 | 604 CAPITOL/REMINGTON WINDSOR | 30 | 38 | 54 | 74 | 85 | 119 | 165 | 170 | 75 | 68 |
| 13003 | POST OFFICE, 10 CENTRE ST CHATHAM | 53 | 39 | 51 | 64 | 76 | 129 | 172 | 191 | 72 | 66 |
| 14016 | HWY40 (OPP LAMBTON GS) COURTRIGHT | 339 | 41 | 56 | 70 | 89 | 127 | 186 | 211 | 78 | 71 |
| 14064 | CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA | 58 | 37 | 59 | 69 | 86 | 140 | 229 | 238 | 82 | 70 |
| 15001 | WRN FAIR GROUNDS, KING/RECTORY LONDON | 56 | 38 | 66 | 76 | 93 | 127 | 190 | 223 | 83 | 75 |
| 15003 | 362 DUNDAS ST LONDON | 55 | 39 | 66 | 83 | 99 | 127 | 183 | 187 | 86 | 77 |
| 22904 | WALPOLE S PS, SANDUSK RD NANTICOKE | 35 | 42 | 55 | 77 | 99 | 125 | 278 | 362 | 88 | 77 |
| 26029 | EDNA/FREDERICK STS KITCHENER | 57 | 48 | 63 | 85 | 96 | 117 | 179 | 192 | 83 | 76 |
| 27037 | NORTH/GENEVA ST ST CATHARINES | 44 | 49 | 65 | 78 | 91 | 123 | 295 | 389 | 90 | 80 |
| 27056 | ALLENDAL AV NIAGARA FALLS | 53 | 42 | 63 | 78 | 98 | 139 | 271 | 366 | 90 | 79 |
| 28028 | EXHIBITION ST/CLARK ST GUELPH | 50 | 39 | 58 | 82 | 89 | 126 | 215 | 254 | 81 | 72 |
| 29001 | HUGHSON/HUNTER HAMILTON | 53 | 64 | 84 | 111 | 133 | 221 | 452 | 500 | 131 | 113 |
| 29011 | BURLINGTON/LEEDS HAMILTON | 56 | 81 | 100 | 123 | 144 | 202 | 332 | 434 | 136 | 125 |
| 29012 | BURLINGTON/WELLINGTON HAMILTON | 53 | 60 | 79 | 91 | 110 | 159 | 315 | 400 | 108 | 97 |
| 29017 | CHATHAM/FRID HAMILTON | 51 | 60 | 79 | 103 | 112 | 136 | 294 | 440 | 106 | 96 |

TABLE A-39 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

| YEAR - 1986 | | POLLUTANT - SULPHATE IN TOTAL | | | SUSPENDED PARTICULATE | | UNIT - .1 MICROGRAMS/CU.METRE | | | | |
|-------------------|--|-------------------------------|----|----|-----------------------|-----|-------------------------------|-----|-----|---------------|--------------|
| STATION NUMBER | LOCATION | NO OF SAMPLES | 10 | 30 | 50 | 70 | 90 | 99 | MAX | ARITH MEAN | GEOM MEAN |
| 29025 | BARTON/WENTWORTH HAMILTON | 85 | 73 | 96 | 114 | 130 | 198 | 245 | 251 | 123 | 115 |
| 29087 | 405 CUMBERLAND AV HAMILTON | 55 | 51 | 83 | 91 | 107 | 149 | 321 | 389 | 104 | 93 |
| 29102 | 467 BEACH BLVD HAMILTON | 81 | 59 | 88 | 118 | 160 | 183 | 335 | 397 | 127 | 104 |
| 29114 | VICKERS RD/EAST 18TH ST HAMILTON | 51 | 39 | 61 | 83 | 106 | 131 | 342 | 374 | 95 | 82 |
| 31104 | 26 BREADALBANE TORONTO | 322 | 52 | 72 | 84 | 104 | 143 | 209 | 387 | 92 | 80 |
| 31120 | PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO | 104 | 45 | 61 | 75 | 96 | 131 | 218 | 320 | 86 | 77 |
| 33003 | LAWRENCE/KENNEDY SCARBORO | 100 | 45 | 63 | 76 | 93 | 122 | 176 | 320 | 84 | 77 |
| 33019 | REDLAND CR (SCARB BLUFFS) SCARBORO | 70 | 44 | 60 | 72 | 94 | 130 | 239 | 379 | 84 | 72 |
| 34002 | SC CTR, 770 DON MILLS RD NORTH YORK | 107 | 43 | 55 | 73 | 90 | 125 | 252 | 318 | 82 | 73 |
| 35003 | ELMCREST RD (CENTENNIAL PK) ETOBICOKE | 97 | 51 | 64 | 82 | 108 | 146 | 193 | 306 | 92 | 83 |
| 35005 | QUEENSWAY HOSPITAL ETOBICOKE | 106 | 47 | 64 | 82 | 98 | 131 | 272 | 338 | 89 | 81 |
| 35033 | EVANS/ARNOLD AV ETOBICOKE | 100 | 58 | 70 | 85 | 105 | 131 | 199 | 350 | 94 | 87 |
| 44008 | HWY2/NORTH SHORE BLVD E BURLINGTON | 117 | 55 | 70 | 89 | 106 | 146 | 251 | 393 | 97 | 89 |
| 44015 | BRONTE RD/MOBBURN CRES OAKVILLE | 119 | 50 | 67 | 82 | 102 | 130 | 224 | 294 | 90 | 83 |
| 45001 | FIRE HALL, BAYLY/BROCK PICKERING | 258 | 30 | 42 | 56 | 76 | 116 | 189 | 363 | 66 | 57 |
| 45025 | PS, RITSON RD/OLIVE AV OSHAWA | 108 | 51 | 66 | 81 | 99 | 132 | 218 | 320 | 88 | 81 |
| 46025 | PUB LIBRARY, 110 DUNDAS W MISSISSAUGA | 27 | 46 | 61 | 67 | 86 | 105 | 127 | 130 | 74 | 71 |
| 46033 | FIRE HALL, BRAMALEA RD BRAMALEA | 44 | 51 | 70 | 82 | 109 | 162 | 274 | 350 | 99 | 88 |
| 46110 | QUEENSWAY W/HURONTARIO ST MISSISSAUGA | 109 | 45 | 61 | 79 | 95 | 127 | 183 | 239 | 83 | 77 |
| 47019 | POST OFFICE, 17-25 PETER ST S ORILLIA | 56 | 35 | 49 | 61 | 74 | 101 | 176 | 207 | 68 | 62 |
| 47042 | ARMOURY BLDG, PARK/PARKSIDE ST BARRIE | 86 | 40 | 57 | 68 | 84 | 131 | 222 | 242 | 77 | 59 |
| 48002 | HWY47/E OF HWY48 STOUFFVILLE | 103 | 30 | 47 | 66 | 82 | 113 | 188 | 272 | 71 | 61 |
| 58027 | 51 SHUTER ST PORT HOPE | 87 | 27 | 39 | 53 | 75 | 124 | 177 | 362 | 67 | 55 |
| 58041 | FILT PLT, MARSH ST PORT HOPE | 89 | 24 | 35 | 51 | 74 | 135 | 217 | 342 | 69 | 54 |
| 58042 | CAN TIRE, QUEEN ST PORT HOPE | 76 | 17 | 31 | 45 | 63 | 101 | 167 | 300 | 56 | 45 |
| 59006 | CITY HALL, 500 GEORGE ST PETERBORO | 43 | 20 | 40 | 58 | 75 | 102 | 201 | 253 | 64 | 52 |

TABLE A-39 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE
JUL 13, 1987

YEAR - 1986

POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE UNIT - .1 MICROGRAMS/CU.METRE

| STATION NUMBER | LOCATION | NO OF SAMPLES | PERCENTILES | | | | | | | ARITH MEAN | GEOM MEAN |
|-------------------|---|------------------|-------------|----|----|-----|-----|-----|-----|---------------|--------------|
| | | | 10 | 30 | 50 | 70 | 90 | 99 | MAX | | |
| 63005 | HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY | 56 | 21 | 28 | 38 | 44 | 56 | 81 | 82 | 39 | 36 |
| 63022 | HOSPITAL, 35 ALGOMA ST N THUNDER BAY | 52 | 17 | 20 | 28 | 36 | 51 | 87 | 133 | 32 | 28 |
| 63040 | 435 JAMES ST S THUNDER BAY | 49 | 16 | 23 | 28 | 35 | 50 | 92 | 116 | 32 | 28 |
| 71042 | PUMPHOUSE, BONNEY ST SAULT STE MARIE | 52 | 44 | 61 | 80 | 112 | 210 | 392 | 480 | 108 | 88 |
| 71049 | LAND OFFICE, QUEEN ST SAULT STE MARIE | 47 | 37 | 46 | 50 | 62 | 78 | 104 | 114 | 54 | 51 |
| 71066 | FARWELL PUMPHOUSE SAULT STE MARIE | 72 | 29 | 43 | 52 | 66 | 99 | 143 | 144 | 59 | 53 |
| 72077 | MINISTRY OF HEALTH BLDG TIMMINS | 46 | 15 | 24 | 29 | 36 | 48 | 125 | 135 | 34 | 29 |
| 75010 | OPP STN NORTH BAY | 45 | 29 | 37 | 44 | 51 | 68 | 147 | 187 | 50 | 45 |
| 77016 | WATER TANK, ASH ST SUDBURY | 47 | 31 | 47 | 63 | 72 | 99 | 146 | 157 | 65 | 58 |
| 77026 | 19 LISGAR ST SUDBURY | 49 | 32 | 46 | 57 | 72 | 97 | 125 | 138 | 62 | 56 |
| 77070 | PUMPHOUSE, NICKEL ST COPPER CLIFF | 50 | 35 | 48 | 67 | 88 | 111 | 209 | 217 | 73 | 63 |

TABLE A-40 10-YEAR TREND FOR SO₄²⁻

| City | Annual geometric mean (ug/m3) | | | | | | | | | |
|-------------|-------------------------------|------|------|------|------|------|------|------|------|------|
| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| BELLEVILLE | 5.7 | 6.8 | 9.7 | 9.0 | 6.5 | 6.7 | 7.5 | 6.5 | 5.6 | - |
| BRAMALEA | 7.3 | 8.5 | 9.2 | 9.0 | 8.2 | 8.8 | 9.0 | 10.8 | 7.7 | 8.8 |
| CHATHAM | 9.8 | 10.3 | 10.7 | 10.3 | 9.3 | 7.8 | 7.9 | 7.4 | 7.5 | 6.6 |
| CORNWALL | 9.0 | 8.5 | 11.2 | 10.8 | 9.9 | 8.2 | 10.6 | 9.4 | - | - |
| ETOBICOKE | 8.6 | 10.8 | 12.9 | 13.8 | 12.1 | 11.3 | 8.8 | 9.3 | 7.7 | 8.7 |
| HAMILTON | 11.4 | 12.0 | 13.6 | 12.5 | 9.6 | 9.6 | 10.1 | 10.9 | 8.8 | 11.5 |
| LONDON | 7.0 | 7.7 | 10.2 | 10.7 | 8.1 | 7.9 | 7.3 | 8.7 | 6.9 | 7.5 |
| MISSISSAUGA | 8.3 | 9.0 | 8.9 | 10.3 | 10.3 | 9.5 | 10.0 | 10.7 | 7.1 | 7.1 |
| NORTH BAY | 6.2 | 7.3 | 7.5 | 8.2 | 6.6 | 6.3 | 6.6 | 7.1 | 6.0 | 4.5 |
| NORTH YORK | 7.3 | 8.7 | 11.2 | 11.7 | 9.1 | 8.8 | 8.0 | 7.3 | 7.7 | 7.3 |
| PICKERING | 6.3 | 8.2 | 9.5 | 7.6 | 7.2 | 6.6 | 5.8 | 5.8 | 5.7 | 5.7 |
| SCARBORO | 7.5 | 9.0 | 11.6 | 11.7 | 9.1 | 8.6 | 8.4 | 8.2 | 7.0 | 7.7 |
| SUDBURY | 7.5 | 6.6 | 8.4 | 10.6 | 9.8 | 7.3 | 8.5 | 7.4 | 5.2 | 5.8 |
| THUNDER BAY | 4.4 | 4.4 | 5.4 | 6.5 | 7.8 | 6.4 | 4.0 | 4.3 | 3.5 | 3.6 |
| TORONTO | 8.8 | 8.9 | 13.1 | 12.9 | 10.1 | 9.5 | 8.7 | 8.0 | 7.3 | 8.0 |
| WINDSOR | 11.2 | 12.3 | 12.7 | 12.6 | 12.0 | 9.9 | 8.7 | 8.6 | 8.5 | 10.5 |

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